CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 16, 1908.

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CONSTRUCTION NEWS.

For the convenience of readers, the items in each department of the Construction News Supplement are arranged in a geographical order as follows:

NEW ENGLAND: Me., N. H., Vt., Mass., R. I., Conn. MIDDLE: N. Y., N. J., Pa., Del., Md., D. C. SOUTH ATLANTIC: Va., W. Va., N. C., S. C., Ga., Fla. SOUTH CENTRAL: Ala., Miss., La., Tenn., Ky. NORTH CENTRAL: Ohio, Ind., Mich., Ill., Wis. NORTHWESTERN: Iowa, Minn., Kan., Neb., S. Dak., N. Dak., Wyo., Mont. SOUTHWESTERN: Mo., Ark., Tex., Okla., Colo., N. Mex. PACIFIC: Wash., Ore., Cal., Ariz., Nev., Utah, Idaho. CANADA: N. B., N. S., P. E. I., Que., Ont., Man., Sask., Alta., N. W. T., B. C. NEWFOUNDLAND. MEXICO.

The advantage of the geographical arrangement over the alphabetical is that all the items relating to work in one locality are kept together. In the Department of Railways, only, where a company may be referred to by its name, is the alphabetical arrangement of items used.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

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RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

AMERICAN MIDLAND.—We are officially advised that permanent surveys probably will begin soon. Financial negotiations are now under way. A. G. C. Bierer, of Guthrie, Okla., is local representative for the company. The line, as planned, will be 2,100 miles long, from Langdon, S. Dak., to Galveston, Tex. The incorporators are Henry Oppenheimer, Meyer Oppenheimer, Charles Sendowsky, Fremont Jerome Hoyle and Lamar Lyndon, all of New York. Under the Oklahoma law there must be three resident incorporators, and these are U. C. Guss, Pres. of the Guthrie National Bank; Carl R. Havighorst, Cashier of the bank, and Benjamin F. Hegler, Jr., a local attorney. In addition to the main line, two branches are provided for, one from Winnsboro, Tex., to Shreveport, La., and the other from Coalgate, Okla., to Poteau, Okla., penetrating the Indian Territory coal and coke regions. The route is southeast through Oklahoma and Indian Territory, via Guthrie and Coalgate, to Galveston. Henry Oppenheimer is Pres. and Lamar Lyndon is Engr., 2 Rector St., New York.

ATLANTA, NORCROSS & GAINESVILLE.—A company has been organized to build from Atlanta to Gainesville, Ga., 50 miles. The capital stock is $15,000. The incorporators are: H. D. Jaquish, C. C. Sanders, W. B. Smith, J. H. Hunt, R. Smith, A. J. Mundy, H. B. Smith, M. M. Ham, J. W. Bailey, H. H. Dean and J. L. B. Stevens, all of Atlanta, Ga.

BAKERSFIELD & VENTURA.—T. B. Blackburn, Supt. and Ch. Engr., Oxnard, Cal., informs us that no contracts have been let yet for building this railway, which will run from Los Angeles to San Francisco, via Oxnard, Sespe and Bakersfield, about 420 miles. Surveys have been made and right-of-way secured. This railway is owned by the Smith Estate, of Los Angeles. Noted previously.

CACHE VALLEY.—Construction work probably will start as soon as financial arrangements are made on the proposed extensions from Walnut Corner to Paragould, Ark., 14 miles, and from Sedgwick to Newport, Ark., 40 miles; also on the line from Marianna to Brinkley, Ark., 28 miles. G. W. L. Brown is Gen. Mgr., Sedgwick, Ark.

CAROLINA VALLEY.—This company, which has graded five miles of line, has let another contract to DODGE & DAY, Drexel Bldg., Philadelphia, to finish grading between High Point and Thomasville, seven miles, and continue it to Greensboro, N. C., 15 miles. Dee Allen is Pres., High Point, N. C. This company now operates the railway between Thomasville and Denton, N. C., 21 miles.

CASSVILLE & WESTERN.—Extensions may be constructed in 1908 from Cassville to Eureka Springs, Mo., 30 miles, and from Exeter to Granby, Mo., 30 miles. S. M. Mitchell is Pres. and Gen. Mgr., Cassville, Mo. Noted on Oct. 31.

CENTRAL & SOUTHEASTERN.—Construction probably will be commenced soon on this railroad. It will run from Chanute, Kan., to Memphis, Tenn. The road is successor to the Arkansas, Missouri & Kansas Ry. D. W. Spooner is Gen. Mgr. and Ch. Engr., Joplin, Mo.

DEL NORTE SOUTHERN.—Incorporated in California with capital of $250,000, of which $40,100 has been subscribed. The incorporators are W. J. Hotchkiss, Louis Titus, J. W. Eddy, J. H. Spring and J. M. Hotchkiss. The company proposes to build a railroad from the end of the wharf in Crescent City to Requa, Del Norte County. It may eventually connect with the projected road along the coast north from Eureka, of which a number of miles have been constructed.

DENVER & GULF.—From La Junta, Colo., location surveys have been made to Canadian, Tex., 275 miles. Preliminary surveys are in progress on the rest of the proposed line, which extends from Denver, Colo., to Port Arthur, Tex. No construction has as yet been done. James Hicks is Ch. Engr. Noted on Oct. 17 and Sept. 19.

DENVER, LARAMIE & NORTHWESTERN.—KILPATRICK BROS. & COLLINS, of Omaha, Neb., have been awarded the contract for the first section of this railway. Locating surveys have been approved and construction on the first section from Denver to Ft. Collins, Colo., 125 miles, will be started in the spring. The entire line of the proposed road extends from Denver to Laramie, Wyo., 450 miles, and eventually to Helena, Mont., Moscow, Idaho, and Seattle, Wash. R. H. Dwyer is Gen. Mgr., Denver, Colo. C. S. Johnson is Pres.; Sidney J. Kent, Secy.; W. I. Davenny, Treas.; John D. Milliken, Gen. Mgr., Denver.

FENTRESS COUNTY.—It is announced that this company wishes to dispose of its charter and the right-of-way secured from Johnson Stand, Tenn., to Monticello, Ky., 68 miles, of which 44 miles are in Tennessee and 24 miles are in Kentucky. Financial conditions are given as the cause of this action. As noted on Oct. 24, W. W. Wood, Pres., Jamestown, Tenn., advises us that "this railroad will extend from Johnson Stand (Maryland post-office), Tenn., via Jamestown to Monticello, Ky., 72 miles. Surveys are made and the right-of-way about 50 per cent. obtained. Capital is being secured." Noted on Aug. 29 and Oct. 3.

GRAND TRUNK PACIFIC.—FOLEY BROS. & LARSON, of St. Paul, Minn., and Winnipeg, Man., have secured contract for building this railway from a point near Edmonson, Alta., to Wolf Creek, Alta., 126 miles. Estimated cost, $5,000,000.

Contract has been awarded to JOSEPH MALONEY, Chippewa Falls, Wis., for furnishing to the G. T. P. Ry. 125,000 ties and 150,000 fence posts, the contract price being $85,000. He has a crew of men at work cutting the material near Roosevelt, Minn.

IDAHO NORTHERN. — The Spokane (Wash.) "Spokesman-Review" states that E. P. Spaulding, Vice.-Pres., has announced that "work on the Idaho Northern Ry., connecting with the O. R. & N. near the mouth of the north fork of the Coeur d'Alene River and following along that river and Pritchard Creek to Paragon Gulch, six miles beyond Murray, Idaho, will be pushed forward in the spring with the present construction force increased to 1,000 men." Noted on Oct. 3. This railway is now in operation from Murphy to Nampa and Emmett, Idaho, 59 miles.

MIONA SPRINGS.—Construction will begin this spring on the line from Fort Valley to Southland, Ga., 30 miles. Grading is completed. J. R. Lane, Vice-Pres. and Gen. Mgr., Fort Valley, Ga.

NEW ORLEANS, FORT JACKSON & GRAND ISLE.—The stockholders of this company have authorized the directors to build the proposed extension from Buras to Venice, La., twelve miles, also to build a branch to Barataria Bay, 14 miles. F. Muller is Secy., Morris Bldg., New Orleans; J. S. Landry is Supt., at Algiers, La. Company operates 60 miles of railroad connecting New Orleans and Algiers with Buras.

*PHILADELPHIA & READING.—Bids were received on Dec. 17 for masonry work, trestle, embankment, bridges, etc. Award of contracts was given on Jan. 2. Interesting tables containing the itemized bids are printed this week under Contract Prices. W. Hunter is Ch. Engr.

PORT O'CONNOR, RIO GRANDE & NORTHERN.—Announcement is made that this company expects to begin tracklaying between Port O'Connor and Yoakum, Tex., 90 miles, during this month. The grade has been completed and is ready for track. The extension from Yoakum to Smithville and possibly to San Antonio, Tex., will also be begun soon. W. J. Allen is Vice-Pres. and Gen. Mgr., and L. A. Gueringer is Ch. Engr., both at Victoria, Tex.

PULLMAN, LA CROSSE & COLUMBIA RIVER.—H. M. Greene, of La Crosse, Wash., Pres., has announced that grading will be commenced soon on this railroad. It is to extend from Pullman, Wash., to La Crosse, Pampa and Hooper to the Columbia River. The officers of the company are H. M. Greene, Pres.; J. O. Staats, Secy. and Mgr.; J. H. Clarke, Treas.; E. S. Knowlton, Aud., and H. M. Greene, J. O. Staats, J. H. Clarke, E. S. Knowlton, P. H. McKenzie, J. S. Schrock, T. H. Shobe and J. B. Taggart, Directors. Noted on Oct. 17.

SAN DIEGO & ARIZONA.—Surveys are in progress under E. J. Kallright, Ch. Engr. The contractor is the RENDLE & FRAZER CONTRACTING CO., of San Diego. As noted on Dec. 12, we were officially advised that "surveyors are still in the field and that final locations have yet to be made. Some experimental grading work has been commenced in the city of San Diego, Cal. Possibly some other contracts will be let covering work in the city itself, but no large contracts can be made until the location is finally settled and accepted." Wm. Clayton is Vice-Pres., Union Bldg., San Diego. On Sept. 12th it was noted that the "contract for grading from San Diego, Cal., to Yuma, Ariz., has been let to the RENDLE & FRAZER CO., of San Diego. John D. Spreckels of San Francisco, Pres., announces that just as fast as the remainder of the right-of-way can be cleared for action additional contracts will be let and the work rushed." First noted on Feb. 28, 1907.

TAMPA NORTHERN.—Survey is being made for proposed line between Brooksville, Fla., and Thomasville, Ga. John Pasco is Ch. Engr., Tampa, Fla.

WASHINGTON, WESTMINSTER & GETTYSBURG.—Surveys have been completed for this railroad, which will be built from Washington, D. C., via Westminster, Md., to Gettysburg, Pa., 90 miles. Company is now securing subscriptions. A branch from Damascus to Frederick, Md., 20 miles, is also proposed. Walter Attee, Marine Bank Bldg., Baltimore, Md., is Ch. Engr. The directors are: Edwin P. Thomas and Allan Farquhar, of Sandy Springs, Md.; Robert N. Harper, A. A. Chapin and William H. Saunders, of Washington, D. C.; Edwin H. Miller, of New York; G. H. Birnie and Edwin Reindollar, of Taneytown, Md.; and T. F. McGlone, of Baltimore, Md. J. B. Colgrove is Pres.; Edwin Thomas, First Vice-Pres.; A. A. Chapin, Second Vice-Pres.; Robert N. Harper, Treas. Noted under Electric Railways (Frederick, Md.) on Dec. 12 and previously.

WOLFE, MEGANTIC & LOTBINIERE.—We are officially advised that this company is negotiating for capital for building this line. It will extend from Quebec to Lime Ridge and Sherbrooke, Que., 110 miles. W. H. Lamby is Secy., Inverness, Que. Right-of-way is secured and survey made. Contracts probably will be let this spring.

UTAH.—Le Grande Young, Pres. of the Emigration Canyon Ry., Salt Lake City, Utah, states that tracklaying on this proposed road from Salt Lake City up Emigration Canyon, 14 miles, will begin next month.

ELECTRIC RAILWAYS.

STOWE, VT.—The Mount Mansfield Elec. R. R. will be extended to Morrisville from Stowe, about eight miles. It now connects Stowe and Waterbury, twelve miles. A. H. Soden, Boston, is Pres.; F. J. Holden, Stowe, is Ch. Engr.

BOSTON, MASS.—Storey, Thorndike, Palmer & Thayer, lawyers, 735 Exchange Bldg., Boston, representing the Boston & Eastern Elec. R. R. Co., have filed a petition with the State Board of Railroad Commissioners asking that a date be set for hearings upon the new plans of the company for constructing its line of railroad directly into the heart of the city, coming from East Boston by tunnel under the harbor and entering Post Office Sq., either by Water or Milk Sts. These plans have been on file for some time and briefly cover the original route from Beverly through Salem, Peabody, Lynn and Revere to Pleasant Sts. in the latter town, where the new line diverges, passing back to the Town Hall across a corner of Chelsea tunneling under streets in East Boston and following at grade the line of the old Boston & Maine roadbed, but parallel with it out upon the marsh land until it enters the earth to go through the tunnel. With the petition are filed the amended articles of agreement of association which permit the change of route. Estimated cost is $10,973,208. John H. Bickford is Engr., 110 State St. For further details, see under Miscellaneous Contracts ("Tunnel—Boston, Mass.") next week.

BEAVER FALLS, PA.—As soon as the weather permits, construction will begin on the Beaver Falls & Koppel St. Ry. It is to be six miles long and will connect Beaver Falls and Ellwood City. A highway bridge will be built over the Beaver River at Ellwood City. Dr. J. P. Simpson, of Beaver Falls, is the promoter. Noted on Dec. 26.

FREDERICK, MD.—It is officially announced that the Washington, Westminster & Gettysburg Ry. will be operated by steam. Details are given under railways—"Washington, Westminster & Gettysburg."

COLUMBUS, GA.—The Georgia R. R. Co. is reported to be making surveys for an electric line to be built from Columbus north along the Chattahoochee River to West Point, Ga., 34 miles. F. E. Reidhead is Mgr., at Columbus. Stone & Webster, Boston, are Gen. Mgrs. and Engrs.

GAINESVILLE, GA.—The Atlanta, Norcross & Gainesville Elec. Ry. Co. has applied for a charter to build a line about 50 miles long from Atlanta via Chamblee, Doraville, Norcross and Buford to Gainesville, Ga. Capital, $15,000. Office will be at Gainesville. The incorporators are H. D. Jaquish, C. C. Sanders, W. B. Smith, J. H. Hunt, R. Smith, A. J. Mundy, H. B. Smith, M. M. Ham, J. W. Bailey, H. H. Dean and I. L. B Stevens.

COLUMBUS, MISS.—It is announced that David J. Parsons, 1526 Third Ave., Columbus, is making estimates and preparing plans for a street railway and electric lighting plant, and wishes to hear from manufacturers of all kinds of electric supplies, engines, boilers, pumps, heaters, dynamos (100 to 300-KW. three-phase machines, or 100 to 150-KW. D. C. 500-volt machines), for railway purposes; transformers, arc lamps, switchboards and appurtenances, general overhead construction material for lighting and railway; bonding material, switches, etc., cars (combination summer and winter cars), motors and all apparatus for a general machine and repair shop.

MEMPHIS, TENN.—H.G. Ferree, Ch. Engr. of the Lake View Traction Co., 127 Madison St., Memphis, advises us that it is planned to begin construction in the spring. Location of 16 miles is completed. The line will run from Memphis to Clarksdale, Miss. Noted fully last week.

NASHVILLE, TENN.—H. H. Mayberry, Pres. of the Nashville Interurban R. R. Co., has announced that a contract has been made with the Nashville Railway & Light Co. whereby that company will furnish the power for operating the road. The company proposes to build from Nashville to Mt. Pleasant, Tenn., 67 miles. The first section, to Franklin, now under construction, is 20 miles long. When the line is completed to Mt. Pleasant it will build its own power house. It is expected to complete the first section during the coming spring. Previously noted. D. A. Proctor is Ch. Engr. of Const., Nashville.

PADUCAH, KY.—The Paducah Southern Elec. R. R. Co. has completed its surveys for the proposed line from Paducah to Mayfield and Hickman, Ky. As noted on Aug. 29, 1907, J. W. Williams of Mayfield, Ky., who purchased a railway franchise in Mayfield, advised us that the Paducah Southern Elec. R. R. Co. plans to build an electric line from Paducah to Hickman, via Mayfield and Fulton, 75 miles. Right-of-way is secured. Capital is obtained. Contract for construction work has been let to the SOUTHERN CONSTRUCTION CO., Paducah. Noted also on July 25.

BOWLING GREEN, OHIO.—The Lake Erie, Bowling Green & Napoleon Ry. Co. is planning to extend its line westward from Bowling Green to Tontogany, Ohio. E. H. McKnight, Bowling Green, is Gen. Mgr.

ALBIA, IOWA.—The Albia Interurban Ry. Co. has completed surveys for the line from Hiteman to Buxton, 16½ miles. J. C. Reese is Pres.; C. B. Judd, Ch. Engr.; Calvin Manning, Secy. and Treas.

FORT SMITH, ARK.—The Fort Smith, Checotah & Shawnee Interurban Ry. Co. has been incorporated in Oklahoma to construct and operate an interurban railway from Ft. Smith, Ark., to Shawnee, Okla. The line when completed will be 160 miles long. It will cost about $1,280,000. Capital stock, $500,000. Incorporators: R. B. Hutchinson, R. G. Smith, L. F. Cain, R. D. Martin and W. M. Duffy, all of Checotah, Okla.

DALLAS, TEX.—L. Fulton, of Dallas, and associates, have applied for a franchise to construct an electric railway in Dallas, to be about three miles long.

ARDMORE, OKLA.—Donald Fitzgerald, 80 Wall St., New York, N. Y., advises us that the Ardmore Traction Co., 99% of the stock of which is owned by himself, has let several contracts for construction of an electric railway, 6½ miles long, in this town. The largest contract has been secured by J. L. ROBERTSON, 6 East Lexington St., Baltimore, Md. Contracts for electrical supplies, rails and wire have not been let. All surveys, right-of-way and financing are complete. The company is capitalized at $500,000. Mr. Fitzgerald owns city addition property valued at $278,000, a part of which will be used for an amusement park, in which he will sub-let privileges. He is open for bids for all equipment and electrical machinery for the park.

SEATTLE, WASH.—K. Allenbaugh, of Seattle, is interested in a new electric railway project. As now planned the new road is to be constructed from a point near Buckley, Wash., to the Cowlitz Pass, a distance of 56 miles, describing a semi-circle around Mt. Rainier. The line will follow the course of the White River from Buckley until it reaches the highest point east of Mt. Rainier, from whence it will follow another stream to the coal fields of Cowlitz Pass, serving a rich mineral and timber section.

WATERVILLE, WASH.—The Priest Rapids Ry. Co. will begin construction work on its proposed line in the spring. The road has been projected principally as a feeder for the transcontinental steam lines and will be equipped to handle standard freight cars. The most important right-of-way has been secured and the remainder is being arranged for. The line will connect with the Northern Pacific, the Great Northern, the Chicago, Milwaukee & St. Paul, the North Coast and the Portland & Seattle Railway, and, when completed, will be 136 miles long. The route as surveyed, lies up the Columbia River valley from Kennewick to the new town of Hanford, where the Hanford Irrigation & Power Co.'s new plant is being constructed to furnish power for the operation of the line as well as for other commercial purposes. From Hanford it will cross the river at Priest Rapids and extend to the Waterville district, serving the wheat lands of Douglas County. W. R. Rust, Pres.; M. B. Haynes, Vice-Pres., Scheuerman Bldg.; E. H. Gule, Secy., New York Block; H. K. Owens, Ch. Engr., Alaska Bldg., all of Seattle.

BERKELEY, CAL.—The San Francisco, Oakland & San Jose Ry. Co. has filed application for a 50-year franchise to build an electric line along Sacramento St. from the Oakland line to the north end of Berkeley, serving that section to the north which has been donated for the proposed capitol site. Work is to be started within six months and completed within two years from the date of the franchise. The extension will cost approximately $3,000,000, including equipment and will form part of an extensive system of lines serving the region from the Berkeley hills to the bay and reaching to Richmond and the Contra Costa towns. J. O. Brown is Asst. Gen. Mgr., Engr. and Pur. Agt., 710 San Pablo Ave., Oakland.

SALT LAKE CITY, UTAH.—At a recent meeting of the Board of Directors of the Utah Light & Railway Co., the recommendation of W. H. Bancroft, Pres., that the franchise granted by Salt Lake City to the company on Dec. 2 be accepted, was adopted. This will mean the building of several miles of new lines, and the construction of a $300,000 power plant, 18 miles east of Ogden, at Devils Gate. Wm. Ashton is Const. Engr.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

MIDDLEBORO, MASS.—A day service for lamps and motors probably will be established at the municipal electric plant soon. George A. Philbrook is Mgr.

TURNERS FALLS, MASS.—The Connecticut River Power Co., which is constructing a dam between Vernon, Vt., and Hinsdale, N. H., has announced its plans for a further development of power at the French King Rapids on the Connecticut River, a short distance above Turners Falls. The company proposes to erect within the next two or three years, or after completion of the dam at Vernon, a low dam at the head of the French King Rapids that will have a height of from ten to twelve feet in times of low water, but will at no time raise the water above the present banks of the river. The purpose of this dam is not to develop year-round power, but to generate energy during low water periods. The dam will not be solid, but will be movable, after the type of many that are constructed in Germany and France for similar purposes. The dam will be so arranged that in times of low water it can be raised to its full height of ten or twelve feet and in times of high water lowered to the bed of the stream. Charles C. Fitts, Crosby Block, Brattleboro, Vt., is Atty. for the Citizens' Com.

FORT COVINGTON, N. Y.—The Fort Covington Light, Heat & Power Company may construct a dam and establish a day service during the coming summer. W. S. H. Keefe is Secy. and Mgr.

WEST NEWTON, PA.—The West Newton Light, Heat & Power Co., of this city, has been capitalized with an authorized stock issue of $25,000, to furnish electric light, heat and power within the borough. Manning Stires, Edward McSweeney and L. V. Sutton are the incorporators.

HARWOOD MINES, PA.—The Harwood Electric Power Co. is contemplating installing two 1,500-KW. General Electric steam turbines, and raising the line voltage to 11,500 volts, 3-phase; also erecting 25 miles of transmission lines. John S. Wise, Jr., is Secy. and Treas.

PORTSMOUTH, VA.—Bids are asked until 11 a. m., Feb. 1, by R. C. Hollyday, Ch. Bureau of Yards and Docks, Washington, D. C., for constructing a radial brick chimney for the power house at the U. S. Naval Hospital here. Specifications are on file at the office of Engineering News, New York.

LONG ISLAND, N. C.—Plans are being considered by the management of the Long Island Cotton Mills for the construction of a hydro-electric plant at Buffalo Shoals, to develop 500 HP. to operate a proposed cotton mill. The cost of the power plant is estimated at $30,000. Osborne Brown, of Long Island, is Pres., and George H. Brown, of Statesville, is Treas.

MACON, GA.—Macon Railway & Light Co. will expend $50,000 in improvements at power-house, including installation of 2,500-HP. generator for furnishing light. J. M. McFarland is Supt.

HAMILTON, OHIO.—Bids are asked at the office of T. Straub, City Audr., until Jan. 22, for $20,000 of electric light bonds, the proceeds of which will be used for enlarging and improving the municipal electric light plant.

SARATOGA, IND.—Cyrus Bousman is planning to receive bids for installation of an electric light plant in connection with his hotel and proposes to furnish electricity to light the town, including business houses and dwellings. It is proposed to operate the dynamos by a gasoline engine.

NATIONAL MILITARY HOME, IND.—Bids are asked until 1 p. m., Jan. 17, by J. W. Sanderson, Treas., Marion Branch, N. H. D. V. S., National Military Home, for drilling two gas or oil wells.

ALBION, MICH.—The managers of the municipal electric light plant are contemplating changing the 37½-KW. dynamo for a 70-KW. machine, or changing the entire system to alternating current at 60 cycles. A. E. Ward is Mgr.

EAU CLAIRE, WIS.—Press reports state that the City Council has authorized the City Clerk to procure bids for gas and electric lighting for city. Wm. Danforth is City Engr.

AMHERST, WIS.—B. E. Dwinell & Co., owners of the local electric light plant, are contemplating installing a pair of horizontal water wheels to develop 100 HP. under 10-ft. head. B. E. Dwinell is Mgr.

PLATTEVILLE, WIS.—The Platteville Electric Light & Power Co. intends to install an additional engine and alternating-current generator in its plant, and will furnish both alternating-current and direct-current day service. G. H. Kordenat is Mgr.

SPENCER, IOWA.—Plans are being made for extensive additions and improvements to the municipal electric light plant, including the installation of a direct-connected unit with a rating of about 60 KW., or a Corliss engine and generator, belted, of the same rating; also a new 150-KW. generator. Both units will be 3-phase, 2,300-volt, 60-cycles. New switchboard, boiler feed pumps, heater, etc., will be installed also. R. L. Taylor is Mgr.

KEOSAUQUA, IA.—We are officially advised that J. W. Andrews, 7 Pine St., New York, N. Y., has been appointed engineer for the two dams to be constructed on the Des Moines River for power purposes, which will cost about $500,000. D. Fitzgerald, 80 Wall St., New York, N. Y., is interested in the enterprise.

SIDNEY, NEB.—The Sidney Electric Service Co. is contemplating installation of another unit of 75 KW., 220 volts, direct connected to a high-speed engine. The company would like to receive prices and information on different types of engines. A day service will be established during the coming summer. W. N. Alexander is Supt.

SLATER, MO.—Extensive changes and improvements are contemplated to the municipal electric light plant. The plant will probably be rebuilt to increase the output, and a compressed air outfit for pumping will be installed. L. E. Shepherd is Mgr.

STANBERRY, MO.—The Stanberry Electric Light & Power Co. is contemplating increasing the equipment of its plant and will install two boilers, engine and dynamo. J. R. Creighton is Mgr.

ARDMORE, OKLA.—Donald Fitzgerald, 80 Wall St., New York, advises us that he is open for bids for electrical machinery and equipment for an amusement park he is constructing in connection with the Ardmore Traction Co., now building an electric railway in this town. The contracts for electrical supplies, rails and wire for the railway have not been let as yet. See Electric Railways.

LAS CRUCES, N. MEX.—The Las Cruces Electric Light & Ice Co. contemplates installing a new system in its plant in the near future, consisting of a 125-KW. alternating-current generator and a Corliss engine. B. L. Berkey is Pres. and Mgr.

PORT TOWNSEND, WASH.—The Citizens Electric Co. will install a 30-KW. direct-current dynamo for motor service in the business section of the city. J. M. Kincaid is Secy. and Mgr.

PROSSER, WASH.—The Prosser Falls Land & Power Co. is preparing to extend the electric light system across the Yokima River and take in the small ranchers on that side. It is reported that the power company expects to build a dam below town a short distance, for another power plant. E. F. Benson is Mgr., Prosser.

BAKER CITY, ORE.—The Eagle River Electric Power Co. is contemplating increasing the equipment of its plant by the installation of an 800-KW. unit. J. K. Romig is Gen. Mgr.

CORONA, CAL.—The Corona Gas & Electric Co. has entered into a contract with the Pacific Light & Power Co., of Los Angeles, for electricity, and will extend its transmission line to Pedley, a distance of seven miles, to connect with the Pacific Light & Power Co.'s station at that place. The transmission line will have a potential of 17,000 volts.

NEEDLES, CAL.—We are officially advised that a company will be incorporated to erect a gas and electric plant at Needles to supply light and power. George F. Mosher, Needles, is Des. Engr. and Mgr.

MONTREAL, QUE.—The Council has awarded a 10-year contract for street lighting to the E. A. ROBERTSON CO. at the following prices: Arc lamps on wooden poles, $55 a year; arc lamps on ornamental poles, $57.50. For the current within incandescent lights, 10 cents per KW.-hour. Cash discounts of 5% for ten days on contracts of one year or over, and 10% on contracts for five years. The Montreal Light, Heat & Power Co.'s bid was said to be irregular, and was not considered.

PORT HOPE, ONT.—It is reported that the Port Hope Electric Light & Power Co. Ltd., contemplates installing a 500-KW. turbine in its plant. Thomas Hamson is Supt.

PETROLIA, ONT.—The Petrolia Electric Light, Heat, Power & Gas Co. Ltd. contemplates installing gas engines and gas producers in its plant. W. G. Mgr.

BROCKVILLE, ONT.—Improvements and extensions are contemplated to the municipal electric light and power plant, including the installation of a 250-KW. direct-connected unit, the construction of a new chimney, etc. C. W. Wilkinson is Mgr.

REVELSTOKE, B. C.—During the coming season the town proposes installing a 400-HP. gas engine and a suitable producer plant; also a 150-KW. dynamo. The present plant will be used for lighting only. C. H. B. Topp is City Engr.

SALTILLO, MEX.—La Auxiliadora Guajardo will establish an electric light and power plant at the Villa de Sabinas, in the district of Monclova, Coahuila. The contract was made between Mr. Guajardo and the Government and has been approved by the latter. The concession entitles him to establish one or more electric plants.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

PHILADELPHIA, PA.—Modifications in the plans for the construction of the Passyunk Ave. bridge has been made by Henry H. Quimby, Asst. Engr., Bureau of Surveys, by which the estimated cost of the structure will be decreased $100,000. The change is to reduce the original span of the bascule draw 44 ft. This will make the total length of the span 200 ft. in the clear. Permission must first be obtained from the Secretary of War to erect the pier that much closer to the channel.

DAUBERVILLE, PA.—The County Commissioners have been granted authority to have a bridge constructed across the Schulykill River here, connecting Center and Gatelaunce Townships.

PITTSBURG, PA.—Plans are being prepared for the construction of a bridge across the Pennsylvania R. R. tracks at Cayuga St., N. S. Sprague is Supt. Dept. Pub. Wks.

BETHLEHEM, PA.—Bids are asked until Jan. 25, by R. T. Neumeyer, City Engr., for the erection of the Northampton Heights iron bridge, 385 ft. long.

ELLWOOD CITY, PA.—See Beaver Falls, Pa., under Electric Railways.

FT. MONROE, VA.—We are officially advised that the lowest bid opened on Jan. 6 for the reconstruction of Mill Creek bridge was submitted by the Tennis Construction Co., Hampton, Va., at $10,545 for use of heart lumber, or $9,348 for use of prime inspection. Capt. Ernest R. Tilton is Constructing Q. M., U. S. A.

MOORESVILLE, N. C.—James W. Brown and associates have awarded the contract to the AMERICAN BRIDGE CO., 42 Broadway, New York, for the erection of the proposed bridge over the Catawba River, connecting Iredell and Catawba Counties. Cost, about $15,000.

CASTLE, N. C.—The lowest bid opened on Jan. 7 by the County Commissioners of New Hanover County, for the construction of a steel highway bridge over the Northeast River at Castle Haynes, was that of the Southern Engineering & Construction Co., Burlington, N. C., at $24,600. Duncan McEarchern is Chn. Comrs.

SAVANNAH, GA.—We are officially advised that the Chatham County Commissioners have rejected all bids for the construction of a steel highway drawbridge over the Great Ogeechee River at Kings Ferry. New bids will be advertised for and bidders will be asked to submit their plans and estimates for the work. The contract for furnishing cypress timber for the wooden parts of the bridge was awarded to WILLIAM FAWCETT at $30 for each 1,000 ft. G. Reuben Butler is Clk. Comrs.

*WASHINGTON, LA.—Bids are asked until noon, Feb. 3, by A. J. Muller, Chn. Police Jury, Opelousas, for the construction of a steel bridge and earth approach over the Bayou Canyon, at Washington. J. J. Healey is Clk., A. J. Muller, Washington, La., is Chn. Police Jury.

HARRODSBURG, KY.—High Bridge, which spans the Kentucky River eight miles from here, may be rebuilt for the Cincinnati, New Orleans & Texas Pacific Ry. Co. Estimated cost, $900,000.

CINCINNATI, OHIO.—Bids are asked until noon, Jan. 31, by the Board of County Comrs. for the construction of a concrete bridge on Bank Lick road, Colerain Township. Fred Dreichs is Clk. Bd.

TROY, OHIO.—Bids are asked until 10 a. m., Feb. 4, for the construction of the superstructure of a hand lift bridge over the Miami and Erie Canal on Water St. in Troy, Ohio. Said bridge to be a skew of 60 degrees, one roadway 20 ft. in the clear, and 6 ft. of walks on each side; 100 lbs. live load capacity, with either plank or permanent floor system. E. E. Pearce is County Audr.

CLEVELAND, OHIO.—Preliminary plans for a viaduct, 2,710 ft. long and 80 ft. high, to connect Denison Ave., Southwest, with Howard Ave., Southeast have been prepared by A. B. Lea, County Engr. Estimated cost, $463,000.

INDIANAPOLIS, IND.—W. C. SMITH has been awarded the contract for constructing two reinforced concrete culverts in Decatur Township, for $3,275. Blaine H. Miller is City Engr.

CROWN POINT, IND.—JEAN CROWELL, Crown Point, was awarded the contract on Jan. 6 by the County Commissioners, for the construction of the Columbia Ave. bridge, at $24,955.

ELKHART, IND.—A. M. Smith, City Engr., has been ordered to prepare plans and specifications for the construction of a viaduct in Beardsley Ave. Bids will soon be asked by the Board of Public Works.

KILBOURN, ILL.—Bids may soon be asked by the Board of Supervisors for the construction of a bridge across the Des Moines River here. Estimated cost, about $20,000.

DES MOINES, IOWA.—George Dobson, City Engr., has received from C. H. Cartlidge, Engr., Chicago, Burlington & Quincy R. R. Co., the detailed plans for the proposed Seventh St. viaduct, which is to cost $27,862. The plans provide for a structure nearly one-third of a mile long. It will have a 34-ft. roadway which will accommodate a double street car track. The bridge will extend from Elm to Tuttle Sts. The main structure will be of reinforced concrete with a roadway underneath. The two ways for pedestrians will be 16 ft. wide and are to be connected with the street by a cement stairway.

FAIRFIELD, IOWA.—The County Commissioners will have a bridge erected over Cedar Creek at Locke's Ford, eleven miles southeast of this city.

TOPEKA, KAN.—The Topeka Ry. Co. will build a viaduct across the Santa Fe Ry. tracks. It is estimated that the cost of construction will be about $50,000.

GLENDIVE, MONT.—The Secretary of the Interior Washington, D. C., has awarded the contract to the MINNEAPOLIS STEEL & MACHINERY CO. for the construction of 34 highway bridges in connection with the lower Yellowstone irrigation project, at $35,965.

GREAT FALLS, MONT.—We are officially advised that bids are asked until 2 p. m., Jan. 30, by Board of County Commissioners of Cascade County for the construction of the following bridges: One steel truss, 120 ft. span center to center, across Belt Creek at the Hackshaw site; one steel truss, 75-ft. span center to center, across the Muddy Creek, at Vaughn; one steel truss, 75 ft. span center to center, across Simms Creek, at Simms. One steel truss, 60 ft. span, across Bird Creek; one rolled beam bridge, 20-ft. opening, across the Little Muddy River, east of Vaughn. All bridges to have a clear roadway of 16 ft. and to be designed for a live load of 1,600 lbs. per lin. ft. David M. Wood is County Clk.

ROCKFORD, WASH.—WILLIAM OLIVER has been awarded the contract for the construction of the Rockford bridge for $3,500. The structure will consist of a 70-ft. steel span and 195 ft. of frame trestle. A. R. Scott is County Engr.

GRANTS PASS, ORE.—The time for receiving bids for the construction of a steel bridge across Rogue River has been extended to 10 a. m., Feb. 5 from Jan. 2. (Noted on Dec. 12.)

HAMILTON CITY, CAL.—The Glenn County Supervisors contemplate having a bridge 180 ft. wide erected at a point on the Sacramento River where connections can be made by Hamilton City with Chico, and have sent plans and specifications of the proposed structure to A. Eller, State Engr., for his approval.

TUCSON, ARIZ.—We are officially advised that plans are being prepared for the construction of a proposed 3 or 4-span bridge, 300 ft. long, 12 ft. wide, and with a capacity of 120 lbs. per sq. ft. Bids will soon be asked. W. C. Goetz is County Surv.

HURRICANE, UTAH.—Bids are asked until noon, Jan. 20, by the County Commissioners of Washington County for the construction of a bridge across the Rio Virgin River on the main road between the towns of La Verkin and Hurricane, in Washington County.

VANCOUVER, B. C.—We are officially advised that J. A. L. Waddell, 2708 Forrest Ave., Kansas City, Mo., has been engaged by the city to prepare plans for the construction of bridges across False Creek. N. A. Clement is City Engr. Noted Dec. 19.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked until 10 a. m., Jan. 29, by Theodore A. Bingham, Police Comr., for furnishing lumber and building materials.

NEW YORK, N. Y.—We are officially advised that Clinton & Russel, 32 Nassau St., are preparing plans for a 16-story brick and stone loft building, to be erected at Madison Ave. and 34th St., for Margaret S. E. Cameron, Clifton, Staten Island. The building will be 49.1 × 99.9 ft. and will cost $300,000.

Raymond F. Almirall, 51 Chambers St., Arch. for the city, acting for Robert W. Hebberd, Comr. of Public Charities, has filed plans with the Buildings Superintendent for a group of projected improvements to be carried out on Blackwell's Island. They comprise a 3-story tuberculosis pavilion, with roof gardens, solarium and exterior verandas, to cost $180,000; a 1-story and attic hospital pavilion for the City Home for the Aged and Infirm, to cost $75,000; a 2-story pathological laboratory, to cost $40,000, and a 3-story and attic residence for the medical staff, to cost $80,000. All these buildings are to be grouped about the Manhattan Hospital. The fifth projected improvement is a 4-story [illegible] for the nurses attached to the Children's Hospital on Randall's Island, which will cost $200,000, making a total of $575,000 to be expended on the five buildings.

The State Prisons Commission, Albany, N. Y., has approved the plans for the new Women's Prison to be constructed by the City of New York in Brooklyn, on the site of the present prison in Raymond St. The estimated cost of the new prison is $350,000.

HACKENSACK, N. J.—We are officially advised that J. Riley Gordon, 402 Fifth Ave., New York, will prepare plans for the proposed Bergen County Jail. Pending legal action the matter will not be taken up before March, and contract will be let during the summer.

MERCER, PA.—The County Commissioners have decided to rebuild the county courthouse that was destroyed by fire a short time ago, and will have plans prepared so that contracts can be awarded and the work started in the early spring. The building will be of stone and steel, will cost $300,000, and will have private electric light and heating plant located in the basement. All floors will be of tile set in cement.

PITTSBURG, PA.—S. H. McCAIN, 1301 Veto St., has secured the contract to erect the 2-story brick and terra cotta school at Maple and Maryland Aves., Tenth Ward, North Side, at a cost of $175,000. C. M. Bartberger, Westinghouse Bldg., is the Arch.

PHILADELPHIA, PA.—Work will be begun early in the spring on the new office building for the Bell Telephone Co., at the corner of Broad and Spruce Sts. The building, for which plans have been made by John T. Windrim, Arch., Commonwealth Bldg., will occupy the corner lot and four lots adjoining, which have been purchased by the company for about $300,000. The lot has a frontage 95 ft. on Broad St., from Spruce to Cypress St., with a depth of about 100 ft.

JOHN R. WIGGINS & CO., Heed Bldg., has secured the contract for erecting four brick, stone and steel additions to the Municipal Hospital, at Second annd Luzerne Sts. Cost, $140,000.

Contract has been let to CRAMP & CO., Commonwealth Bldg., for erecting a 3-story brick, stone and steel school building, 85 × 150 ft., at Rising Sun Lane, for the Board of Education. Cost, $118,000. Henry R. Edmunds is Pres. Bd. Public Education.

*DELAWARE CITY, DEL.—Bids are asked by Capt. J. L. Knowlton, Const. Q. M., at Fort Du Pont, until 11 a. m., Feb. 12, for constructing a boat-house at that post.

*WASHINGTON, D. C.—Bids are asked by the Commissioners of the District of Columbia, until noon, Jan. 25, for constructing an addition to the Eastern Market House, including the Fish Market to the west, located at North Carolina Ave. and Seventh St., S. E.

BEDFORD CITY, VA.—We are officially advised that the Board of County Supervisors of Bedford County have selected Frank P. Milburn & Co., Archs., Home Life Bldg., Washington, D. C., to prepare plans and specifications for the proposed county jail. Bids will be called for as soon as the plans are ready.

CHARLOTTE, N. C.—We are officially informed that J. A. JONES, of Charlotte, has secured the contract from the Charlotte Realty Co. for erection of a 12-story and basement office building. Work will be commenced at once. Plans were prepared by Frank P. Milburn & Co., Archs., Home Life Bldg., Washington, D. C.

CHAPEL HILL, N. C.—The State University of North Carolina has accepted the bid of N. UNDERWOOD, of Durham, N. C., for building the new Davie Hall building. Plans were prepared by Frank P. Milburn & Co., Washington, D. C.

JACKSONVILLE, FLA.—The SOUTHERN FERRO-CONCRETE CO., Equitable Bldg., Atlanta, Ga., advises us that it has the contract for all the reinforced concrete work in the new Y. M. C. A. building at Jacksonville, Fla. This is to be a 6-story building, fireproof, outside dimensions 104 × 96 ft. The curtain walls will be of pressed brick and terra cotta trimmings. The basement will be used for baths, swimming pool, and first floor for the gymnasium, main lobby and library; second floor for assembly rooms; floors above for classrooms and bedrooms.

NEW ORLEANS, LA.—Andry & Bendernagel, Archs., Tulane-Newcomb Bldg., have let contract for erecting the Richardson Memorial building of the Tulane Medical College to GEORGE J. GLOVER, Hibernia Bank Bldg., for $129,000.

CHATTANOOGA, TENN.—Bids are asked until noon, Feb. 12, by R. H. Hunt, Arch., James Bldg., Chattanooga, for constructing a Y. M. C. A. building to be erected on Georgia Ave. The materials to be used include face brick, terra cotta trim and cornice, and structural steel. It will have reinforced floors, marble tile and maple flooring, tile-lined swimming pool, oak trim.

NORWALK, OHIO.—Bids are asked until noon, Feb. 10, by Board of Commissioners for Huron County, for repairing the Huron County Court-house. The alterations and repairs will consist of excavating for and constructing sanitary closets in the basement of said courthouse, relaying the main corridor floor, constructing stairways from basement to the second floor and converting the room that is at present used for a sanitary closet into an office room. F. O. Ronk is County Audr.

CINCINNATI, OHIO.—New bids will be received at once by the Board of Education, William Grautman, Clk., City Hall, for the 3-story Hughes High School building, 272 × 192 ft., on McMillan St., from plans by J. Walter Stevens, Arch., New York Life Bldg., St. Paul, Minn. Press brick, Bedford stone, terra cotta and reinforced concrete will be used in construction. Cost, $750,000. Edward Hannaford, Pickering Bldg., Cincinnati, is Heating and Ventilating Engr.

MICHIGAN CITY, IND.—Mahurin & Mahurin, of Fort Wayne, have been engaged to draw plans and superintend the erection of a courthouse in this city. The appropriation is $125,000.

CHICAGO, ILL.—Dwight H. Perkins, Arch. for the Board of Education, Tribune Bldg., is at work upon plans for a 3-story addition and alteration in the Dante School at Desplaines, Ewing and Forquer Sts. The new building will contain 15 rooms, an assembly hall and a gymnasium. It will cost $175,000.

Huehl & Schmid, Archs., 165 Randolph St., have revised plans and will take estimates again on a mercantile building, at 286 Fifth Ave., for Washington Porter, 77 Jackson Boulevard. It will have ten stories and will be 60 × 100 ft., brick, steel and concrete construction. Cost, $150,000. Squiers, Aldrich & Co., 297 Franklin St., are the lessees.

NORTH CHICAGO, ILL.—The Bureau of Navigation, Navy Dept., Washington, D. C., has rejected all bids received Dec. 2, for the construction of the Commandant's house and four officers' quarters at the Naval Training Station, North Chicago, Ill. It was found that the appropriation was not sufficient to cover all the expenditures planned.

*MARINETTE, WIS.—Bids are asked until 3 p. m., Feb. 25, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for constructing a U. S. post-office at Marinette.

DULUTH, MINN.—Bids are asked until Jan. 18, by D. H. Burnham & Co., 15 Jackson Boulevard, Chicago, Ill., for an addition to the Board of Trade building, at Duluth, Minn., for the Duluth Board of Trade. It is to be nine stories high, brick, stone and steel construction, 63 × 56 ft. Cost, $200,000.

FORT RILEY, KAN.—Bids are asked by Capt. W. M. Whitman, Constr. Q. M., until 10 a. m., Feb. 6, for the construction of the following buildings: Quarters for field officer, two double lieutenants' bachelor officers', double non-commissioned officers', double hospital corps sergeants', band barracks, Q. M. stable and wagon sheds (and enlargement of corral); addition to hospital and to ordnance storehouse, and for annex and alterations to artillery administration building.

PINE BLUFF, ARK.—Bids are asked until 3 p. m., Feb. 21, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Pine Bluff.

HOUSTON, TEX.—Houston Theater Co., composed of H. T. D. Wilson and H. Prince, is having plans prepared by H. C. Cooke & Co., Opera House Bldg., for erection of fireproof theater to replace structure burned at a loss of about $120,000. It is reported that the structure will be five stories high with frontage of 150 ft.; front to be used for office purposes, and theater about three stories high, 30 ft. in the rear.

SEATTLE, WASH.—Eames & Young, Wright Bldg., are preparing plans for a 15-story office building, for the National Bank of Commerce, Seattle, Wash. Brick, stone, granite, terra cotta and reinforced concrete will be used in construction. Cost, $1,000,000. Bids will be received by the James Black Masonry & Construction Co., Wright Bldg., St. Louis, Mo.

LOS ANGELES, CAL.—Plans have been prepared by the Reeves & Baillie Co., Archs., for a store and apartment block to be erected for George B. Easton, 431 South Main St., at the corner of 16th and Arlington Sts. The building will be two stories high and of the mission style of architecture, with plastered exterior. The ground floor will contain seven storerooms, and the upper story will be fitted for apartments, four suites of offices and a large lodge or assembly room. According to the plans the interior finish will be of Oregon pine. The apartment will be equipped with wall beds, and be provided with screen porches, electric lights, modern plumbing arrangements and other conveniences. Asphalt floors are designated for the storerooms. The roof will be of mathoid and tile. Work on the construction of the building will be begun soon.

Plans have been prepared by A. L. Haley, Arch., Henne Bldg., for a 10-story theater and hotel structure on the east side of Hill St., between Fifth and Sixth Sts. It will be of steel frame construction, fireproofed with concrete. The lower part will be fitted for a theater and the upper stories will be used for hotel purposes. The estimated cost of the building is $250,000.

VANCOUVER, B. C.—McDONALD, WILSON & SNYDER, of this city, have been awarded the contract for erection of a proposed court-house here, at about $500,000.

Parr & Fee, Archs., 330 Homer St., Vancouver, have taken out permits for the erection of three new office and warehouse buildings to be constructed of stone and brick. One for Martin & Robertson is to be 52 × 120 ft., six stories, to be equipped with 30 vaults. One for Bowser & Wilson, 52 × 120 ft., to cost $100,000; and one for Boyd & Burns, six stories, 86 × 120 ft., to cost $60,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BLANDFORD, MASS.—Bids will probably be asked in April or May for the construction of water-works. C. A. Tinker, Springfield, Mass., is Engr.

WATUPPA (Fall River post-office), MASS.—The Watuppa Water Board contemplates constructing a reinforced concrete reservoir, to have a capacity of between 100,000,000 and 200,000,000 gallons of water. P. D. Borden is City Engr.

WINTHROP, MASS.—The Town Board has authorized an issue of $134,000 bonds for the purchase of the plant of the Revere Water Co.

PEABODY, MASS.—The contract for about 3,200 ft. of 16-in., 2,500 ft. of 10-in. and 3,000 ft. of 6-in. iron pipe, together with the specials, was awarded by the Water Board to CHARLES MILLER & SON, Utica, N. Y., at about $8,000.

*MADISON BARRACKS (Sacketts Harbor), N. Y.—Bids are asked in triplicate until 2 p. m., Feb. 15, by R. W. Drury, Const. Q. M., U. S. A., for constructing a 300,000 gallon steel tank.

STAATSBURG, N. Y.—We are officially advised that bids will be asked about Feb. 1 by the Staatsburg Water Co. for three miles of piping, dam for reservoir, etc. B. H. Brevoort, 54 Market St., Poughkeepsie, N. Y., is Engr.-in-Charge.

ROCHESTER, N. Y.—DENNISTON & CO., 601 E. & B. Bldg., have been awarded the contract for constructing gate-house for the Cobbs Hill Reservoir, at $34,100.

*YONKERS, N. Y.—Bids are asked by the Board of Contract and Supply, Manor Hall, Yonkers, until 9 a. m., Feb. 3, for furnishing and delivering at Yonkers various quantities of pipes and castings. James D. McIntyre is Secy. Bd.

VERONA, N. J.—The citizens on Dec. 30 voted to issue $55,000 bonds for the construction of water-works.

GLOUCESTER CITY, N. J.—The city proposes to have water mains constructed in East Brown, East Bergen, Chambers, Gaunt, Somerset, Catherine and Francis Sts.

SHARON, PA.—The Sharon Water-Works Co. will install a pump estimated to cost about $25,000.

*PHILADELPHIA, PA.—Bids are asked until noon Jan. 30 by the Department Public Works for Contract No. 133, the construction of shelter houses for Torresdale filters, and for Contract No. 136, boiler equipment for the Roxborough pumping station. George R. Stearns is Dir. Pub. Wks.

COLUMBIA, S. C.—The contract for the hydrants for Main St. has been awarded by the city to the R. D. WOOD Co., 400 Chestnut St., Philadelphia, Pa.

PENSACOLA, FLA.—The city has decided to purchase the plant of the Pensacola Water Co., at $187,500. An improvement bond issue of $250,000 is available and the remaining $62,500 will be expended in extension of water mains. John C. Oliver is Chn. Board of Safety.

FORT MORGAN, ALA.—Bids are asked until 2 p. m., Jan. 21, by Capt. L. F. Garrard, Jr., Const. Q. M., U. S. A., for the construction of concrete cisterns.

NEW ORLEANS, LA.—We are officially advised that the only bid received on Jan. 2 by the Sewerage and Water Board for a 4,000,000 gallon direct-acting compound, condensing pumping engine for the Algiers water purification station was submitted by Epping-Carpenter Co., at $5,950. George G. Earl is Gen. Supt. Sewerage and Water Bd.

POINT A LA HACHE, LA.—The Back Levee Board on Jan. 4 decided to have a drainage system installed in this town. Aaron Davis is Pres. Bd.

COLUMBUS, OHIO.—The Board Public Service has authorized the expenditure of $20,000 for extending water mains. Henry C. Maetzel is City Engr.

YOUNGSTOWN, OHIO.—F. M. Lillie, City Engr., has estimated the cost of the Berlin reservoir project, which calls for a 50-ft. reservoir including a dam to impound 5,400,000,000 gallons of water, land, and raising county roads at $400,000.

EVANSVILLE, IND.—The city may have a filtration plant constructed, capable of furnishing 12,000,000 gallons of water per day. W. F. Wunderlich is City Clk.

GARY, IND. — The GREAT LAKES DREDGE & DOCK CO., Chamber of Commerce Bldg., Chicago, Ill., has been awarded the contract for constructing a water tunnel three miles in length into Lake Michigan for a water-works plant. Estimated cost, $2,000,000.

GRAND RAPIDS, MICH.—The city contemplates having the pumping station remodeled, and installing a 12,000,000 gallon vertical triple-expansion pumping engine and a standpipe. Estimated cost, $150,000. A. Freshney is Gen. Mgr. Bd. Pub. Wks.

CHICAGO, ILL.—The Union Stockyards Co. First National Bank Bldg. will have a plant constructed for the purpose of purifying the water of Bubble Creek. Estimated cost, $100,000.

ROSSVILLE, ILL.—The town has voted $9,000 of bonds, a portion of which will be used in improving water-works.

MINNEAPOLIS, MINN.—We are officially advised that bids are asked by the City Council until Jan. 31 for 2,000 tons of cast-iron water pipe. Andrew Rinker is City Engr.

FRANKLIN, MINN.—A new water tower may be erected, or the present tower repaired, some time during the coming year. E. S. Johnson is Village Recdr.

ST. LOUIS, MO.—We are officially advised that the contract for laying 13 miles of pipe has been awarded by the West St. Louis Water & Light Co. to U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York City. John R. Cullinane is Mgr., West St. Louis Water & Light Co.

Bids will soon be asked by the West St. Louis Water & Light Co. for one 40-ft. standpipe, one 20-ft. standpipe, 102,000 lbs. lead, and for hauling.

RUSSELLVILLE, ARK.—A franchise for the construction of a water-works system has been granted C. S. Bacon, Pine Bluff, Ark., and he will install the plant.

FORT WORTH, TEX.—E. C. Woodward, City Engr., has submitted plans for the construction of a water system. Estimated cost $986,100.

LAS ANIMAS, COLO.—A water-works system is to be constructed for this city. Bids will be asked about Feb. 1. Estimated cost, $67,000. W. R. Murphy is City Engr.

PUEBLO, COLO.—C. C. SULLIVAN has been awarded the contract by the Nepesta Ditch & Reserve Co., Pueblo, for the construction of all ditches from Chicos Creek, Doyle arroya and the Huerfan River to its supply reservoir.

This work will be completed in the spring, at which time the reservoir will have a storage capacity of 5,000 acre ft. sufficient to irrigate 5,000 acres of land. The work will be conducted until fall, at which time the reservoir will have its maximum capacity of 10,000 acre ft. and will be able to irrigate 10,000 acres of land. The reservoir is located five miles north of Nepesta.

SEATTLE, WASH.—We are officially advised that R. H. Thomson, City Engr., has estimated the cost of laying water mains in Third Ave., Northwest, and other streets, at $13,050.

NORTH YAKIMA, WASH.—Bids are asked by the Reclamation Service, North Yakima, until 2 p. m., Jan. 27, for the construction of the Naches branch of the Tieton distribution system, involving over 100,000 sq. yds. of excavation.

SANTA BARBARA, CAL.—R. E. Graham, San Jose, Cal., is promoting a water supply project for the oil fields in Kern County. It is proposed to secure water in the Cuyama Valley. The pipe line will pass through Ventura, Santa Barbara, San Luis Obispo and Kern Counties. From the source of the supply to the oil fields there is a drop of 3,000 ft., and with such a fall, it is believed that the high ridge that intervenes about midway of the country to be traversed by the pipe line will be surmounted by means of the force acquired without artificial assistance. Estimated cost, about $100,000.

TONOPAH, NEV.—A water-works system will be installed at Rawhide, Thomas Kearns, Rawhide, having secured a water franchise for the purpose.

GUELPH, ONT.—A by-law for $125,000, to remodel the water-works system and bring pure water from springs about four miles from the city, instead of direct from the Speed River as at present has been voted upon favorably.

HESPELER, ONT.—Hespeler ratepayers have passed a by law to raise $12,000 for the extension of a pipe line for fire protection.

NIAGARA FALLS, ONT.—By laws to appropriate $15,800 on water-works improvements and $5,800 on garbage disposal have been voted upon favorably. H. H. Jackson is City Engr.

SARNIA, ONT.—A by-law to raise $6,000 for the extension of the water-works system has been voted on favorably. J. Turner is City Engr.

HAMILTON, ONT.—Bids are asked until Jan. 21 by S. H. Kent, City Clk., for supplying the Water-Works Dept. with cast-iron pipe specials and ordinary castings, lead pipe, hydrants, valves, etc.

VANCOUVER, B. C.—We are officially advised that the Canadian Fairbanks Co., Vancouver, B. C., was the only bidder for furnishing brass goods and galvanized iron pipe at $3,013 for brass goods, and $2,330 for pipe. W. A. Clement is City Engr.

Specifications for supplies for the Water-Works Department for the year 1908 are on file at the office of Engineering News, New York City. Bids are asked until March 1.

PRINCE ALBERT, SASK.—The ratepayers have passed the by-law to raise $50,000 for the extension of the light and water-works system and extra fire-fighting equipment. F. A. Creighton is City. Engr.

*MONTEREY, N. L., MEX.—Bids are asked until noon Jan. 24 by the Monterey Water-Works & Sewer Co., Ltd., 161 Matamoros St., Monterey, for the construction of about 3,000 lin meters of 42-in. internal diameter, concrete conduit extending from San Geronimo to the Obispado reservoir, including excavation and all other work incidental thereto, and for the lining and roofing of two reinforced concrete service reservoirs, each of 10,000,000 gallons capacity, for the Estanzuela and San Geronimo supplies. G. R. G. Conway is Ch. Engr., Monterey Water-Works & Sewer Co., Ltd.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BAR HARBOR, ME.—The city contemplates having constructed a new outlet for sewer system of about 2,500 ft., 1,300 ft. in harbor, balance to be done by day labor. Estimated total cost, $27,000. John W. Silk is Supt. of Sewers.

DORCHESTER, (Boston post-office), Mass.—The contract for the construction of Sect. 2 of the Stony Brook sewer in Bryant St. was awarded on Jan. 4 by John J. Leahy, Supt. Sewer Dept., to T. J. O'CONNELL, Dorchester, at $17,219.

DUNKIRK, N. Y.—Bids will soon be asked for constructing 10-in. tile sewers in Beaver, Zebra and East Second Sts.

YONKERS, N. Y.—The following contracts have been awarded by the Council for (a) constructing a sewer in Woodland Ave. from Oneida St. southerly, and (b) constructing a sewer in Woodland Ave. from Oneida St. to Frederick Ave.: (a) CODY, KELLY & HANNIFAN, at $4,360, (b) JOHN MADIGAN, at $6,999.

SYRACUSE, N. Y.—The city has decided upon the construction of an 18-in. pipe sewer in Avery Ave. from Tompkins St. to Bryant Ave., a 12-in. pipe sewer in Bryant Ave. from Avery Ave. to connect with the present sewer, a 20-in. pipe sewer in Dillaye Ave. from Burnet Ave. to Vann St., a 15-in. pipe sewer in Vann St., from Dillaye Ave. to Teall Ave., an 8-in. pipe sewer in Teall Ave. from the end of the present sewer to Shuart Ave., and a 12-in. pipe sewer in Teall Ave. from Shuart to James St. Geo. I. Metz is City Clk.

NEW YORK, N. Y.—The following bids were received on Jan. 7 by Louis F. Haffen, Pres. Boro. Bronx. No. 7. For constructing outlet sewers and appurtenances in Truxton St., between East River and Leggett Ave., and in Leggett Ave., between Truxton St. and Dawson St., at its intersection with East 156th St.; in East 156th St., between Dawson St., at its intersection with Leggett Ave. and Tinton Ave.; in Whitlock Ave., between Leggett Ave. and Longwood Ave., and in Longwood Ave., between Whitlock Ave. and the Southern Boulevard: H. Pilkington, 1343 Lexington Ave., New York, $356,234; McDonald & Barry, Tiebout Ave. and 183d St., New York, $428,111; A. G. Vermilye, $416,726; Thos. D. Crimmins Contracting Co., 444 East 69th St., New York, $436,468; Michael Marrone, 414 East 116th St., New York, $370,416; W. F. Murray, 13 Park Row, New York, $446,699; W. J. Brennan, $465,638.

LANCASTER, PA.—The City Council on Jan. 1 authorized the City Controller to ask for new bids for the construction of sewers in Hand, Harrisburg and College Aves., and in Market, Prince and Lemon Sts.

BARBOURSVILLE, W. VA.—The city has voted $15,000 of bonds for construction of sewerage system and water-works.

McMECHEN, W. VA.—Bids are asked until Jan. 18 by the City Council for the construction of about four miles of pipe sewers. H. M. McElroy is City Recdr.

AKRON, OHIO.—MATTHEW McCOURT, 1000 Rhodes Ave., Akron, has been awarded the contract for the construction of a local sanitary sewer in Getz St. C. H. Watters is Secy. Bd. of Pub. Serv.

EATON, OHIO.—Bids will probably soon be asked for the construction of sewers and a disposal plant, estimated to cost $125,000. A. L. Reid is City Engr.

LORAIN, OHIO.—The contract for the construction of a brick storm sewer in Penfield Ave., Sewer Dist. No. 4, has been awarded to FARAGHER & RANDALL, Lorain. George N. Damon is City Clk.

HAMILTON, OHIO.—J. E. Brote, County Audr., advises us that bids probably will be asked next month for construction of a sewer, partly open and partly closed, to cost about $71,700. L. A. Dillon, Hamilton, is Design. Engr.

RICHMOND, IND.—We are officially advised that bids are asked until Jan. 24 by the Board of Public Works for the construction of a sewer system and disposal plant. Estimated cost, $50,000. Fred A. Charles is City Engr.

GRAND RAPIDS, MICH.—The Board of Public Works has estimated the cost of the construction of a sewer in East Fulton St., from Coldbrook Valley trunk sewer to near east city limits, and also in Lowell Ave. at $7,524. L. W. Anderson is City Engr.

*TECUMSEH, MICH.—Bids are asked by the Board of Trustees until 1 p. m., Feb. 4 for furnishing all labor and material for constructing 1,020 ft. 15-in. pipe sewer; 500 ft. 12-in. pipe sewer; 11,348 ft. 10-in. pipe sewer; 28,227 ft. 8-in. pipe sewer; 14,674 ft. 6-in. pipe sewer, together with all necessary manholes, flush tanks, masonry and Y branches. W. L. Jones is Clk. Bd.

MORTON PARK, ILL.—The Board of Local Improvements has approved plans for a 6-ft. sewer six miles long, from Austin to the Chicago drainage canal. Estimated cost, $248,000, of which the city of Chicago is expected to pay $140,000.

JANESVILLE, WIS.—E... prepared by C. V. Ker... extensional sewers, estim...

RACINE, WIS.—H. C. ... awarded the contract for ... a 15-in. sewer in Herrick ... foot.

DES MOINES, IOWA.—... til 11 a. m., Jan. 28, by ... Works, for the construct... rified clap pipe sewer on ... a connection with sewer o... point 500 ft. south of the ... Ave. About 500 lin. ft. of ... will be required. George ... Engr.

ST. PAUL, MINN.—The ... Works has awarded the co... struction of an 18-in. pip... ft., in Maryland St., to SC... NOLLY at $27,000. L. E... Engr.

KANSAS CITY, MO.—Bid... 11 a. m., Jan. 17, by E... Engr., for constructing ... Districts Nos. 301, 8 and ...

*BARTLESVILLE, OKLA... until 6 p. m., Jan. 27, by ... City Engr., for furnishing ... constructing complete about ... tile sewer; 6,000 ft. 10-in. ... ft. 12-in. tile sewer; 750 ... cu. yds. rock excavation; 25... from 4 to 16 ft. deep; 85 ... yds. concrete masonry.

(Continued on next page.)

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*RAILWAY BRIDGES, MASONRY, ENGINE YARD.—Philadelphia, Pa.—Bids were received by W. Hunter, Ch. Engr., Philadelphia & Reading Ry., Philadelphia, on Dec. 17, for the following work on the P. G. & N. R. R.: Contract No. 5—Masonry, trestle and embankment from south side of Berks St. to the south side of Susquehanna Ave. Contract No. 7—Masonry, trestle and embankment from south side of Susquehanna Ave. to Broad St. Contract No. 8—Bridges from Berks St. to Broad St. Contract No. 14—Masonry, embankment and paving for yards between York St. and Cumberland St. Contract No. 26—Temporary engine yard at Wayne Junction. The following contracts were awarded on Dec. 26: To ARMSTRONG & LATTA, New Land Title Bldg., Philadelphia, Contract No. 5 at $368,790; No. 14, at $100,718; No. 26, at $47,200. To JAMES McGRAW, Arcade Bldg., Philadelphia, No. 7, at $276,718. To the McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, No. 8, at $336,785. The bids in detail were as follows:

CONTRACT NO. 5.—The bids were: (A) James McGraw & Co., Arcade Bldg.; (B) the Hoffman Engineering & Contracting Co., Pennsylvania Bldg.; (C) the Ferguson Contracting Co., 37 Wall St., New York; (D) Millard Construction Co., Pennsylvania Bldg.; (E) Mack Paving & Construction Co., Land Title Bldg.; (F) Armstrong & Latta Co., Land Title Bldg.; (G) David Lupton's Sons Co., Allegheny Ave. and Tulip St.; (H) John A. Kelly Co., Pennsylvania Bldg.; all are local bidders except (C).

General (aa) excavation and (bb) embankment—per cu. yd.:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(aa) Without classification	$1.25	$1.55	$1.00	$0.95	$0.60	$0.50	$0.65	$1.00
(bb) Provided and placed by contractor on cars or carts	.52	.62	.80	.47	.40	.45	.85	.90
(bb) Delivered and placed by contractor on cars or carts	.20	.42	.55	.20	.30	.30	.35	.20

Masonry—per cu. yd.:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1st class masonry with 3d class backing	8.40	10.35	14.00	13.00	9.50	8.00	10.00	9.50
2d class masonry with 3d class backing	8.25	9.55	10.00	11.00	9.00	7.00	9.00	8.50
3d class masonry above neat line	5.70	8.45	6.00	9.20	6.75	6.50	6.75	5.75
3d class masonry in foundations	5.25	8.20	5.70	8.00	5.50	5.00	6.25	5.40
Stone masonry in underpinning	12.00	30.00	10.00	40.00	9.50	30.00	25.00	17.50
1st class arch masonry	10.00	12.50	18.00	25.00	20.00	12.50	25.00	10.00
1-2-4 concrete arch masonry	8.40	9.50	16.00	12.50	10.25	7.50	10.00	8.50
1-3-6 concrete copings	7.75	9.25	10.00	10.00	9.00	6.75	9.00	8.50
Granite bridge seats or pedestal blocks	30.00	42.00	50.00	35.00	15.00	50.00	40.00	33.00
1-2-4 concrete masonry (1½" stone)	8.50	9.75	12.00	14.00	9.50	7.25	10.00	7.75
Bridge seats and pedestal blocks of 1-2-4 concrete masonry (¾" stone)	8.25	9.25	15.00	20.00	9.50	7.75	10.00	8.50
1-3-6 concrete masonry above neat line	5.55	8.15	8.20	6.15	7.50	6.45	7.00	6.45
1-3-6 concrete masonry above neat line—surface exposed to street	7.45	8.45	9.00	7.15	8.50	6.70	7.50	7.00
1-3-6 concrete masonry in foundations	5.25	7.65	7.20	5.50	5.50	6.00	6.50	5.65
Monuments of 1-3-6 concrete (¾" stone), 6" square x 3' 6" long, each	3.00	10.00	100.00	2.50	1.00	5.00	10.00	.50
Brick masonry in cement mortar	10.00	20.00	12.00	15.00	15.00	10.50	15.00	14.00
Brick masonry in underpinning	12.50	30.00	14.00	50.00	15.00	30.00	25.00	20.00
Dry stone packing	2.90	3.30	2.00	2.25	2.00	3.75	3.00	2.25
Corrugated asbestos boards used in contraction joints per sq. ft.	.18	.20	.20	.20	.10	.16	.25	.15

Paving and curbing—(cc) per sq. yd.; (dd) per lin. ft.; (ee) per lb.:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(cc) Paving with granite blocks on sand base	2.75	2.50	3.00	2.35	3.00	1.85	3.00	2.50
(cc) Paving with second-hand granite blocks on sand base	2.75	2.00	2.60	1.65	2.50	1.25	2.50	2.50
(dd) 5" straight blue stone curb	1.00	1.00	1.00	.60	.70	.48	1.00	.75
(dd) 5" curved blue stone curb	1.50	1.50	1.50	1.00	1.00	2.00	2.00	1.50
(dd) 6" straight granite curb	2.00	1.50	3.00	1.40	1.50	2.50	1.50	1.25
(dd) 6" curved granite curb	4.00	2.00	4.00	2.25	2.00	3.50	3.00	2.00
Iron drain pipe:								
(ee) 4" c.-i. pipe	.10	.04	.06	.10	.03	.05	.04	.04
(ee) 6" c.-i. pipe	.05	.04	.06	.10	.03	.03½	.04	.04
(ee) 8" c.-i. pipe	.10	.04	.06	.10	.03	.05	.04	.04
(ee) 10" c.-i. pipe	.10	.04	.06	.10	.03	.05	.04	.04
(ee) 12" c.-i. pipe	.10	.04	.05	.10	.03	.05	.04	.04
(ee) 16" c.-i. pipe	.10	.04	.05	.10	.03	.05	.04	.04
(ee) 18" c.-i. pipe	.10	.04	.05	.10	.03	.05	.04	.04
Vitrified clay drain pipe—per lin. ft.:								
4" V. C. pipe	1.25	1.85	.40	1.55	.20	.18	.50	.25
6" V. C. pipe	1.35	1.90	.50	2.10	.25	.27	.50	.40
8" V. C. pipe	1.50	2.00	.60	2.10	.30	.45	1.00	.60
10" V. C. pipe	1.75	2.15	.80	2.10	.40	.68	1.00	.90
12" V. C. pipe	2.00	2.50	1.00	2.24	.50	.90	2.00	1.20
15" V. C. pipe	2.25	2.75	1.50	2.35	.75	1.25	2.00	1.60
18" V. C. pipe	2.50	2.75	1.50	2.50	1.00	1.55	2.00	2.00
6" V. C. pipe back of retaining walls	.22	.45	.30	.15	.25	.15	.50	.25

Lumber for miscellaneous work—per M. ft. B. M.:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Long-leaf yellow pine	70.00	60.00	60.00	50.00	60.00	60.00	65.00	50.00
Short-leaf yellow pine	60.00	53.00	50.00	40.00	55.00	49.00	55.00	38.00
Hemlock	60.00	45.00	50.00	40.00	60.00	60.00	60.00	40.00
Trestle, crib-work and foundation lumber—per M. ft. B. M.:								
Long-leaf yellow pine for trestles	43.00	50.00	48.00	53.50	55.00	40.00	65.00	50.00
White or chestnut oak for trestles	70.00	75.00	60.00	80.00	75.00	45.00	65.00	50.00
Short-leaf or "sap" yellow pine for trestles	41.00	40.00	38.00	44.25	47.00	36.00	55.00	38.00
Hemlock for trestles	41.00	40.00	38.00	50.00	50.00	40.00	60.00	40.00
Crib work, inc. bolts and necessary embankment	24.00	25.00	30.00	20.00	35.00	20.00	55.00	25.00
Long-leaf yellow pine for foundations	50.00	45.00	42.00	100.00	60.00	60.00	65.00	50.00
Short-leaf yellow pine for foundations	50.00	40.00	32.00	100.00	55.00	49.00	55.00	38.00
Hemlock for foundations	50.00	40.00	32.00	100.00	60.00	60.00	60.00	40.00
Piling—per lin. ft.:								
White oak	.50	.60	.60	1.00	.50	.90	.65	.40
Yellow pine	.30	.55	.45	1.00	.45	.75	.65	.35
Spruce or hemlock	.30	.50	.40	1.00	.45	.75	.55	.30
Steel and iron—per lb.:								
Steel used in concrete reinforcement	.05	.05	.04	.05	.03	.04	.10	.05
Steel rails used in concrete reinforcement	.07	.03	.03	.03	.02	.03	.10	.03
Structural steel	.02¼	.06	.03	.05	.05	.03½	.05	.03½
Wrought iron or steel in trestle details, etc	.03¾	.05	.03	.05	.05	.04	.05	.04½
Cast iron	.03¾	.04	.04	.10	.03	.04¾	.05	.05
Hand railing—								
Railing on retaining walls, per lin. ft.	.75	.70	2.00	.70	1.50	.58	3.00	.65
Newel posts, each	9.25	6.00	15.00	7.00	10.00	4.95	10.00	6.00
Totals	$371,200	$481,063	$439,153	$408,717	$395,981	$368,791	$461,2...	$390,788
Time—working days	300	450	400	300	500	365	45...	600

SEATTLE ...SH.—We are officially advised that ... asked until Feb. 8, by the Board Public ... for the following approximate quan... for the construction of the North trun... Brick sewer, 36-in., 795 lin. ft.; br... concrete sewer, 42-in., 3,721 lin. ft.; br... concrete sewer, 48-in., 548 lin. ft.; br... concrete sewer, 54-in., 5,023 lin. ft.; br... concrete sewer, 72-in., 336 lin. ft.; br... concrete sewer, 84-in., 1,104 lin. ft.; br... concrete sewer, 90-in., 2,050 lin. ft.; br... concrete sewer, 96-in., 2,- ...k or concrete sewer with 132 lin. f... in., 3,482 lin. ft.; brick or brick inv... with brick invert, 126-in., concrete ... or concrete sewer with brick 183 lin. ft... 948 lin. ft.; brick or brick invert, 138- ...nnel, 72-in., 3,581 lin. ft.; and concr... manholes, extra depth, 400 lin. manholes ...mber, one; stormwater overflow, one ...catcher, including manhole, one; 6-in. ...connections, 500; extra concrete, 1:2: ...ou. yds.; extra concrete, 1:8, 2,000 cu. y... ...ub-drain, 8-in., 10,000 lin. ft.; extra steel ...00 lbs. The above approximate quan... are for the purpose of comparing bid... Payment will be based upon the fini... ...l quantities, as measured in the finished ...rk. Contractors may bid on either brick ... concrete sewers at their option, one ...only for each size being required. C. ... Bagley is Secy. Bd.

SANTA ...Z, CAL.—The following contracts for ... construction of sewers have been award... by the City Council: Sewer in Hunt St. ... Water St., to GEORGE C. PRATCHNE... sewer, Everett Circle to Mission St., to ... T. McFADDEN.

The City Council has passed resolutions ordering the construction of sewers in California Ave., ...670 ft., in Walnut Ave., from Mission to ...ing Sts., 874 ft., and in Third St., 464 ft.

SALT LAKE CITY, UTAH.—The following bids were opened on Jan. 3 by the Board Public Works for the construction of sewer extensions ... sewer extension No. 191, including South Temple, Second South, Tenth East Sts., and the reservation, 9,100 ft.: A. Campbell, $1.95 per lin. ft.; Robert Forrester, $2.18 per lin. ft.; J. W. McKim, $2.30 per lin. ft.; J. D. HANLEY, $1.76 per lin. ft. (awarded contract); F. J. Leonard is Chn. Bd.; Louis C. Kelsey is City Engr.

PROVO, UTAH.—S. H. BELMONT was awarded the contract on Dec. 31, by the City Council, for the construction of a sewer in District No. 7, at about $10,000. W. E. Harding is City Recdr.

BOISE, IDAHO.—The City Council on Jan. 3 authorized the Board of Public Works to advertise for bids for the construction of the sewer system in lateral sewer District No. 107.

VEGREVILLE, ALTA.—The Town Council are contemplating having a complete sewerage system installed during the coming summer.

GARBAGE DISPOSAL.

NEW LONDON, CONN.—The following bids were opened on Jan. 6 by the Street Committee for (a) collecting ashes and (b) sweeping the streets for the next 10½ months: CHARLES A. PECK (a) $3,444 (b) $3,956 (awarded contract); Arthur Chapman (a) $3,600; Daniel Wall (a) $3,647; Edward Neilan (a) $3,743; ALEXANDER J. CONNOR (b) $3,670 (awarded contract).

NEW YORK, N. Y.—Bids are asked until noon, Jan. 28, by Foster ... Crowell, Comr. Street Cleaning, for furnishing and delivering parts for repairs of sweeping machines and sprinkling trucks.

PHILADELPHIA, PA.—Seven bids were received on Jan. 11 by the Department Public Works for the removal of snow: Peoples Bros., 2510 Callowhill St., Philadelphia, were the lowest bidders at $1.49 for delivery of two horse loads at private dumps, 79 cts. for one-horse loads, $1.24 for delivery of two-horse loads at city manholes, and 69 cts. for delivery of one-horse loads. George R. Stearns is Dir. Pub. Wks.

INDIANAPOLIS, IND.—The contract for removing and disposing of the refuse and garbage of the city market for the year 1908 has been awarded to SAMUEL FERGASON by the Board of Public Safety, at $85 a month.

ST. LOUIS, MO.—The following contracts have been awarded by the Board Local Improvements for street sprinkling during the year beginning Jan. 15:

JAMES T. McMAHON—District No. 1, $3,-590; No. 2, $4,010; No. 4, $4,360; No. 5, $4,-250; No. 6, $4,119; No. 7, $4,161; No. 27, $2,550; No. 28, $2,600; No. 29, $2,800; No. 41, $3,800; No. 42, $3,540; No. 44, $3,500; No. 45, $3,840; No. 46, $3,000.

WILLIAM H. REDEMEYER—District No. 9, $4,000; No. 22, $3,840; No. 23, $3,350; No. 24, $3,900; No. 25, $3,570; No. 26, $5,350; No. 30, $4,100; No. 64, $5,000.

J. E. SIPPY—District No. 52, $4,600; No. 55, $4,900; No. 56, $4,300; No. 47, $4,600; No. 58, $4,200; No. 59, $4,200; No. 61 4,100; No. 62, $5,000.

MARTIN DAVIS—District No. 32, $2,900; No. 35, $3,600; No. 38, $2,490; No. 39, $2,300; No. 40, $2,800; No. 43, $4,490.

JOSEPH KNAUS—District No. 3, $3,600; OLIVER SENTI, district No. 8, $4,420; A. H. POLLMAN, district No. 10, $3,928; PAUL YOUNG HAULING & CONTRACTING CO., district No. 11, $3,659; OSCAR WEBER, R. WERNER and J. PETERSON, district No. 12, $3,547; MUELLER COAL AND HEAVY HAULING CO., district No. 13, $4,539; SUTTON CONTRACTING CO., district No. 15, $3,350 and No. 16, $3,740; JOHN A. LYNCH, district No. 17, $5,500 and No. 18, $3,740; JOHN McMAHON, district No. 33, $2,940; No. 34, $2,991; No. 37, $3,487; ANDREW C. WURST, district No. 14, $3,865; No. 19, $3,-119; MICHAEL F. PFEFFLE, district No. 20, $3,309; No. 31, $4,135; T. E. CAVANAGH, district No. 36, $3,296; JAMES DAVIS, district No. 47, $3,440; No. 48, $2,-490; No. 49, $3,450; No. 51, $3,990; EDWARD F. WHALEN, district No. 50, $2,980; HARRY F. HEMAN, district No. 53, $4,800; WILLIAM RATH, district No. 54, $4,371; H. C. POLLMAN, district No. 63, $4,509.

NIAGARA FALLS, ONT.—See under Water-Works.

VICTORIA, B. C.—The Council contemplates submitting a by-law to the ratepayers, which would provide the sum of $54,000 for the erection of an incinerator. C. H. B. Toop is City Engr.

STREETS AND ROADS.

ATTLEBORO, MASS.—Plans and specifications for the construction of a highway in Attleboro are on file at the office of Engineering News, New York. Bids are asked until Feb. 1.

YONKERS, N. Y.—The following bids have been received by the city for street improvements: For regulating and grading Ridge Ave., Thomas Grady, $18,900; Joseph B. Pennell, $19,450; Cody, Kelly & Hannifin, $19,-780; Fred E. Gross, $20,000; Mangeni & Canepi, $20,200; Charlton & Weston, $23,690; Dennis Murphy, $20,968; James J. Hart, $21,-900; McDonald & Murray, $22,792; Francesco Cianfaglione, $23,270; and Callahan & Dee, $24,689. Regulating and grading Lake Ave., McDonald & Murray, $2,376; Thomas Grady, $2,400; James J. Hart, $2,450; Francesco Cianfaglione, $2,558; Charlton & Weston, $2,650; Fred E. Gross, $2,820; Dennis Murphy, $2,940; O'Rourke Brothers, $3,275; and Carey & Connors, $4,350. Grading Glenwood Ave., Joseph B. Pennell, $17,379; Charlton & Weston, $17,450; Fred E. Gross, $17,600; Thomas Grady, $18,000; McDonald & Murray, $18,678; Mangini & Canepi, $19,300; Francesco Cianfaglione, $19,400; Dennis Murphy, $19,500; Cody, Kelly & Hannifin, $19,725, and James J. Hart, $19,900.

LOCKPORT, N. Y.—The Board of Supervisors have adopted the plans of Frederick Skene, State Engr., for the improvement of the Akron road, 10½ miles long. Estimated cost, $119,000. Bids will soon be asked.

BERNE, N. Y.—The Town Board contemplates issuing $10,000 road improvement bonds.

BUFFALO, N. Y.—We are officially advised that plans are being prepared for repaving Rhode Island St. Bids will be asked in three or four weeks. C. E. P. Babcock is Asst. City Engr. Noted on Jan. 9.

NIAGARA FALLS, N. Y.—Bids will soon be asked by the Board of Public Works for paving Buffalo Ave. from Sugar St. to the city line. Estimated cost, $65,000.

*MADISON BARRACKS (Sacketts Harbor postoffice), N. Y.—Bids are asked until 2 p. m., Feb. 15, by R. W. Drury, Const. Q. M., U. S. A., for the construction of about 6,000 sq. ft. of concrete sidewalk.

PATERSON, N. J.—A number of streets may be paved with asphalt, wood block, asphaltic macadam, brick, Palisade block or macadam, at an estimated total cost of $280,000. Harold Harder is City Engr.

*ATLANTIC CITY, N. J.—Bids are asked until 8:30 p. m., Jan. 27, by the City Clerk, for repaving Pacific Ave. and constructing drainage conduits. J. W. Hackney is City Engr.

Bids are asked until 8.30 p. m., Jan. 27, by the Street Committee of the City Council for street paving.

PINE GROVE, PA.—HORN & NEFF, Slatington, Pa., were awarded the contract on Dec. 26 by the State Highway Commissioner for the construction of 3,300 ft. of state road leading from Pine Grove, at $7,232.

ALTOONA, PA.—Ordinances have been passed by the Council providing for paving Lexington Alley, between Ninth and Tenth Sts., Crawford Ave., between Fifth and Ninth Sts., 17th Alley, between Union and Eleventh Aves., and Ninth St., between 21st and 25th Aves. and regulating the setting and inspection of curbing.

GREENSBURG, PA.—Bids are asked by the State Highway Department, Harrisburg, until Feb. 3, for the construction of 25,035 ft. of road, 16 ft. wide, extending from the borough line of Greensburg along the West Newton Road, in Hempfield Township, in the County of Westmoreland. Joseph W. Hunter is State Highway Comr.

FORT WASHINGTON, MD.—Bids are asked until 11 a. m., Feb. 7, by the Constructing Quartermaster, U. S. A., Ft. Washington, for constructing macadam roads.

BALTIMORE, MD.—Bids are asked until 11 a. m., Jan. 22, by the Board of Awards for grading, curbing and paving with granite blocks Franklin St., from the west side of Eutaw St. to the west side of Pennsylvania Ave. J. Barry Mahool is Pres. Bd. B. T. Fendall is City Engr.

ATLANTA, GA.—H. L. Collier, Supt. Pub. Wks., has recommended the repaving of Marietta, Decatur, Alabama, Forsyth and Elliott Sts.

JACKSONVILLE, FLA.—Bids may soon be asked by the County Commissioners for the construction of a hard surface road from South Jacksonville to the Atlantic Ocean. John Brice is Supt. Sts.

FAYETTEVILLE, TENN.—Bids are asked until March 2 at the office of Board of Mayor and Aldermen in Courthouse for grading and constructing between four and five miles of sidewalks in Fayetteville, all to be built of asphalt or concrete and be not less than four and one-half feet wide. J. E. Poindexter is Clk. Bd.

LOCKLAND, OHIO.—A. Cowan, City Engr., has submitted plans, estimates and profiles for the improvement of Stout Ave. with cement curb and gutters.

(Continued on next page.)

CONTRACT PRICES.

(Continued from preceding page.)

CONTRACT NO. 7.—The bidders were: (1) McGaw & Gray, Pennsylvania Bldg.; (B)* Hoffman Eng. Co.; (C)* the Ferguson Contracting Co.; (A)* James McGraw Co.; (J) W. L. Gallagher & Co., 1332 Walnut St.; (D)* Millard Const. Co.; (K) Reilly & Riddle, Walnut Lane and Oros St.; (G)* David Lupton's Sons Co.; (E)* Mack Paving Co.; (H)* John A. Kelly Co.; (F)* Armstrong & Latta Co.

*Also bidder on Contract No. 5.

	(I)	(B)	(C)	(A)	(J)	(D)	(K)	(G)	(E)	(H)	(F)
General (aa) excavation and (bb) embankment—per cu. yd.:											
(aa) Without classification	$0.50	$1.55	$1.00	$0.95	$1.22	$0.95	$2.50	$0.65	$0.60	$1.00	$0.50
(bb) Provided and placed by contractor on cars or carts	.80	.62	.80	.52	.75	.47	.70	.85	.40	.90	.45
(bb) Delivered on cars or carts and placed by contractor	.30	.42	.55	.20	.20	.20	.22	.35	.30	.20	.30
Masonry—per cu. yd.:											
1st class masonry with 3d class backing	8.50	10.35	14.00	8.40	11.00	13.00	11.00	10.00	9.50	9.50	8.00
2d class masonry with 3d class backing	8.00	9.55	10.00	8.25	6.00	11.00	9.00	9.00	9.00	8.50	7.00
3d class masonry above neat line	6.75	8.45	6.00	5.70	5.00	9.20	7.00	6.75	6.75	5.75	6.50
3d class masonry in foundations	6.00	8.20	5.70	5.25	18.00	8.00	6.00	6.25	5.50	5.40	5.00
Stone masonry in underpinning	12.00	30.00	10.00	12.00	18.00	40.00	9.00	25.00	9.50	17.50	30.00
1st class arch masonry	11.00	12.50	18.00	10.00	16.00	25.00	16.00	25.00	20.00	10.00	12.50
1-2-4 concrete arch masonry	10.00	9.50	16.00	8.40	10.00	12.50	12.00	10.00	10.25	8.30	7.50
Copings of 1-3-6 concrete	9.00	9.25	10.00	7.75	10.00	10.00	10.00	9.00	9.00	8.50	6.75
Granite bridge seats or pedestal blocks	33.00	42.00	50.00	30.00	40.00	35.00	50.00	40.00	15.00	33.00	50.00
1-2-4 concrete masonry (1½" stone)	9.00	9.75	12.00	8.50	9.25	14.00	10.00	10.00	9.50	7.75	7.25
Bridge seats and pedestal blocks—1-2-4 concrete masonry (¾" stone)	10.00	9.25	15.00	8.25	11.00	20.00	10.00	10.00	9.50	8.50	7.75
1 3-6 concrete masonry above neat line	6.75	8.15	8.20	5.55	6.50	6.15	7.00	7.00	7.50	6.45	6.45
1-3-6 concrete masonry above neat line—surface exposed to street	7.00	8.45	9.00	7.45	7.50	7.15	7.50	7.50	8.50	7.00	6.70
1-3-6 masonry in foundations	6.00	7.65	7.20	5.25	5.00	5.50	6.00	6.50	5.50	5.65	6.00
Monuments of 1-3-6 concrete (¾" stone) 6" square, 3' 6" long, each	3.00	10.00	100.00	3.00	3.00	2.50	2.00	10.00	1.00	.50	5.00
Brick masonry in cement mortar	10.00	20.00	12.00	10.00	12.00	15.00	12.00	15.00	15.00	14.00	10.50
Brick masonry in underpinning	12.00	30.00	14.00	12.50	18.00	50.00	12.00	25.00	15.00	20.00	30.00
Dry stone packing	2.75	3.30	2.00	2.90	3.50	2.25	2.00	3.00	2.00	2.25	3.75
Corrugated asbestos boards in contraction joints	.20	.20	.20	.18	.25	.20	.22	.25	.10	.15	.16
Paving and curbing—(cc) per cu. yd.; (dd) per lin. ft.; (ee) per lb.											
(cc) Paving with granite blocks on sand base	2.20	2.50	3.00	2.75	2.50	2.35	2.25	3.00	3.00	2.50	1.85
(cc) Paving with 2d-hand granite blocks on sand base	2.20	2.00	2.00	2.75	2.00	1.65	2.00	2.50	2.50	2.50	1.25
(dd) 5" straight blue stone curb	.65	1.00	1.00	1.00	1.00	.60	.75	1.00	.70	.75	.48
(dd) 5" curved blue stone curb	.95	1.50	1.50	1.50	1.50	1.00	1.00	2.00	1.00	1.50	2.00
(dd) 6" straight granite curb	1.10	1.50	3.00	2.00	2.50	1.00	2.00	1.50	1.50	1.25	2.50
(dd) 6" curved granite curb	1.45	2.00	4.00	4.00	3.00	2.25	2.50	3.00	2.00	2.00	3.50
Iron drain pipe:											
(ee) 4" c.-i. pipe	.03	.04	.06	.10	.05	.10	.03	.04	.03	.04	.05
(ee) 6" c.-i. pipe	.03	.04	.06	.05	02½	.10	.03½	.04	.03	.04	.03½
(ee) 8" c.-i. pipe	.03	.04	.06	.10	.05	.10	.04	.04	.03	.04	.05
(ee) 10" c.-i. pipe	.03	.04	.06	.10	.05	.10	.04½	.04	.03	.04	.05
(ee) 12" c.-i. pipe	.03	.04	.05	.10	.05	.10	.05	.04	.03	.04	.05
(ee) 16" c.-i. pipe	.03	.04	.05	.10	.05	.10	.06	.04	.03	.04	.05
(ee) 18" c.-i. pipe	.03	.04	.05	.10	.05	.10	.06½	.04	.03	.04	.05
Vitrified clay drain pipe—per lin. ft.:											
4" V. C. pipe	.20	1.85	.40	1.25	.15	1.55	.30	.50	.20	.25	.18
6" V. C. pipe	.25	1.90	.50	1.35	.18	2.10	.35	.50	.25	.40	.27
8" V. C. pipe	.27	2.00	.60	1.50	.26	2.10	.43	1.00	.30	.60	.45
10" V. C. pipe	.30	2.15	.80	1.75	.35	2.10	.55	1.00	.40	.90	.68
12" V. C. pipe	.50	2.50	1.00	2.00	.45	2.24	.70	2.00	.50	1.20	.90
15" V. C. pipe	.75	2.75	1.30	2.25	.58	2.35	.98	2.00	.75	1.60	1.25
18" V. C. pipe	1.25	2.75	1.50	2.50	.71	2.50	1.15	2.00	1.00	2.00	1.55
6" V. C. pipe back of retaining walls	.25	.45	.30	.22	.18	.15	.12	.50	.25	.25	.15
Lumber for miscellaneous work—per M. ft. B. M.											
Long-leaf yellow pine	45.00	60.00	60.00	70.00	50.00	50.00	50.00	65.00	60.00	50.00	60.00
Short-leaf or "sap" yellow pine	37.50	53.00	50.00	60.00	40.00	40.00	40.00	55.00	55.00	38.00	49.00
Hemlock	37.50	45.00	50.00	60.00	42.00	40.00	45.00	60.00	60.00	40.00	60.00
Trestle, crib-work and foundation lumber—per M. ft. B. M.:											
Long-leaf yellow pine for trestles	46.00	50.00	48.00	43.00	50.00	53.50	55.00	65.00	55.00	50.00	40.00
White or chestnut oak for trestles	50.00	75.00	60.00	70.00	75.00	80.00	60.00	65.00	75.00	50.00	45.00
Short-leaf or "sap" yellow pine for trestles	37.50	40.00	38.00	41.00	40.00	44.25	40.00	55.00	47.00	38.00	36.00
Hemlock for trestles	37.50	40.00	38.00	41.00	42.00	50.00	45.00	60.00	50.00	40.00	40.00
Crib-work, including bolts and necessary embankment	23.00	25.00	30.00	24.00	30.00	20.00	40.00	55.00	35.00	35.00	20.00
Long-leaf yellow pine for foundations	40.00	45.00	42.00	50.00	48.00	100.00	45.00	65.00	60.00	50.00	60.00
Short-leaf yellow pine for foundations	32.50	40.00	32.00	50.00	36.00	100.00	35.00	55.00	55.00	38.00	49.00
Hemlock for foundations	32.50	40.00	32.00	50.00	38.00	100.00	40.00	60.00	60.00	40.00	60.00
Piling—per lin. ft.:											
White oak	.50	.60	.60	.50	.40	1.00	.55	.65	.50	.40	.90
Yellow pine	.50	.55	.45	.30	.25	1.00	.50	.65	.45	.35	.75
Spruce or hemlock	.50	.50	.40	.30	.25	1.00	.50	.65	.45	.30	.75
Steel and iron—per lb.:											
Steel used in concrete reinforcement	.03	.05	.04	.05	.03½	.05	.04	.10	.03	.05	.04
Steel rails used in concrete reinforcement	.02	.03	.03	.07	.04	.03	.04	.10	.02	.03	.03
Structural steel	.05	.06	.06	.03	.03	.05	.05	.08	.05	.03½	.03½
Wrought iron or steel in trestle details and other places	.03½	.05	.06	.03¼	.04½	.05	.05	.08	.05	.04½	.04
Cast iron	.03	.04	.04	.03¼	.04½	.10	.04	.08	.03	.05	.04¾
Hand railing:											
Railing on retaining walls, per lin. ft.	.70	.70	2.00	.75	1.25	.70	1.50	3.00	1.50	.65	.58
Newel posts, each	5.85	6.00	15.00	9.25	8.00	7.00	8.50	10.00	10.00	6.00	4.95
Totals	$301,677	$363,157	$326,242	$276,778	$311,654	$301,769	$348,812	$356,909	$297,000	$290,620	$279,000
Time—working days	700	400	400	275	300	300	400	400	500	600	365

MEMPHIS, TENN.—City contemplates the improvement of Florida St. by paving.

VERSAILLES, IND.—We are officially advised that JORDAN BROS., Milan, Ind., were awarded the contract on Jan. 7 by Nicholas Volz, County Audr., for the construction of about three miles of stone road, at about $10,195.

HAMMOND, IND.—The contract for paving the new road from Hammond to Tolleston, road contracts Nos. 1 and 2, was awarded on Jan. 6 by the County Commissioners to W. W. HATCH & SONS, at $6,799 and $6,199. Charles A. Johnson is County Audr.

COLUMBUS, IND.—The Commissioners of Bartholomew County have let the contract for the construction of the Wright gravel road in three sections, the Waynesville section to JOHN BEATTY, at $2,825; the Thompson section to THOMPSON & QUINN, at $1,980, and the Wright section to JOHN BEATTY, at $7,715.

BRAZIL, IND.—Bids will soon be asked by the Commissioners of Clay County for the construction of nine gravel roads in Perry Township.

CRAWFORDSVILLE, IND.—Bids are asked by the Commissioners of Montgomery County until 11 a. m., Feb. 3, for the improvement and construction of a gravel road in Union Township, known as the Duckworth road. Bennet B. Engle is County Audr.

VERNON, IND.—Bids are asked by the Commissioners of Jennings County until 11 a. m., Feb. 3, for the construction of 4,568.62 ft. of gravel pike road in Vernon and Center Townships. S. L. Thomas is County Audr.

LEBANON, IND.—Bids are asked by the Commissioners of Boone County until 10 a. m., Feb. 3, for the construction of a gravel road in Clinton Township, 3,581 ft. in length, known as the Lawrence road, and until 2 p. m., Feb. 3, for the construction of a gravel road in Center Township, 5,340 ft. in length, known as the Campbell road; for the construction of a gravel road, 7,950 ft. long, in Marion Township, known as the Charles Wire road, and for the construction of a gravel road, 7,938 ft. long, in Marion Township, known as the Stowers road. B. F. Herdrich is County Audr.

DETROIT, MICH.—Bids are asked until 10 a. m., Jan. 17, by the Department of Public Works for approximately 1,000,000 paving brick, to be delivered in such quantities and at such times and places as said department may direct. J. J. Haarer is Comr. Public Works.

*CHAMPAIGN, ILL.—We are officially advised that the following bids were received on Jan. 8, by the Board of Local Improvements for grading, curbing, draining, and paving Daniel St. with asphalt: Capitol City Concrete Construction Co., Springfield, Ill., $26,242; GEORGE A. PETER, Sycamore, Ill., $23,682 (awarded contract). G. C. Fairclo is City Engr.

FORT SCOTT, KAN.—Bids are asked until 2 p. m., Jan. 18, by the Good Roads Commission of Fort Scott and Scott Township for the construction of 4½ miles of macadam road in Scott Township. W. R. Moore is Chn. Comn.

KANSAS CITY, MO.—Bids are asked until 11 a. m., Jan. 17, by E. A. Harper, City Engr., for 16 contracts for street grading.

LITTLE ROCK, ARK.—E. N. WEIGEL has been awarded the contract for the construction of four miles of macadam road on Twelfth St., from the Battery and extending 19,000 ft. west, at about $24,000. Gerard Morgan is Engr. in charge.

DALLAS, TEX.—The City has awarded the contract to KLEIN BROS. for constructing sidewalks and curbs on Main St., at $6,804.

DENVER, COLO.—The following bids were opened by the city on Jan. 4, for the improvement of District No. 2, with (a) crushed boulders, (b) crushed live granite, (c) crushed disintegrated granite: Commonwealth Construction Co., (a) $88,336; (b) $85,685; (c) $88,356; Gaffey & Keefe, Exchange Bldg., Denver, $91,631, with no consideration of the material used; Seesic Bros., (a) and (b) $96,943; (c) $89,818; the Denver & Public Construction Co., 67 Railroad Bldg., Denver, (b) $96,079; J. Fred Roberts, 1850 16th St., Denver, (c) $87,991.

SIERRA MADRE, CAL.—We are officially advised that all bids for grading, oiling and constructing cement curbs, gutters, and pipe culverts on Central Ave., from Sierra Madre Ave. to Canon Ave., were rejected by the city on Dec. 26, J. J. Graham is City Clk.

SALT LAKE CITY, UTAH.—We are officially advised that the time for receiving bids for the improvement of First South St. has been extended to Feb. 21. F. J. Leonard is Chn. Bd. Pub. Wks.

KINGSTON, ONT.—Two by-laws have been carried, one granting $12,000 for road improvements. E. E. Beckwith is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

HUBBARDSTON, MASS.—James E. McWilliam, Hubbardston, Mass, manufacturer of fire extinguishers and textile machine goods whose plant was wrecked recently by the explosion of a boiler, announces that he will rebuild on the premises.

CATSKILL, N. Y.—The Seaboard Portland Cement Co., with principal office at Catskill, is about to break ground for construction of a cement plant on the Hudson River a few miles from Catskill.

JERSEY CITY, N. J.—John T. Rowland, Archt., 15 Exchange Pl., Jersey City, is receiving estimates for a 2-story factory building for Jabez Burns & Co., to cost $50,000.

PITTSBURG, PA.—Car repair shops are to be built on the Pittsburg extension to the Buffalo & Susquehanna Ry. to care for the Juneau Junction. The officials have not decided definitely where the proposed new shops will be located along the Pittsburg extension. H. Herden, Goleton, Pa., is Ch. Engr.

PITTSBURG, PA.—The Seamless Tube Co. of America, Frick Bldg., has awarded a contract for furnishing two 400-HP. automatic compound Skinner-Corliss engines to A. D. GRANGER & CO., Bessemer Bldg., city.

The United States Boiler Appliance Company of Pittsburg has been granted a charter with a capital of $25,000 and will erect a plant in the Pittsburg District to manufacture boilers and engines. The incorporators are A. K. Young and H. D. Gamble, 5857 Elsworth Ave., Pittsburg, and Harry W. Davis of Wilmington, Del.

ALLEGHENY, PA.—The Damascus Bronze Co., South Ave., Allegheny, has purchased ground adjoining its present plant, on which it will erect in the spring a 75 × 100 brick and steel building as an extension to its foundry.

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ALLEGHENY, PA.—The Damascus Bronze Co., South Ave., Allegheny, has purchased ground adjoining its present plant, on which it will erect in the spring a 75 × 100 brick and steel building as an extension to its foundry.

VILLAGE SPRINGS, ALA.—The Blount Mountain Portland Cement Co., is reported incorporated in October with a capital stock of $3,000. The William B. Shaffer Engineering Co., Nazareth, Pa., is Engr.-in-Charge. The company will build plant with daily capacity of 3,000 bbls. of Portland cement. Plant will cost $830,000. All contracts are awarded for machinery; construction begins within 60 days. Buildings are to be built as follows: Crusher-house of frame, 70 × 100 ft.; drier-house of steel, 56 × 100 ft.; raw mill of brick and steel, 102 × 145 ft.; kiln-house of steel, 148 × 161 ft.; finishing mill of brick and steel, 102 × 145 ft.; coal-grinding mill, 36 × 110 ft.; blacksmith [illegible] chine shop, 50 × 30 [illegible] ft.; carpenter shop of [illegible] tile roof, 30 × 30 ft. [illegible] and steel, cement [illegible] boiler-house, 38 × 154 [illegible] 250 ft.; material not [illegible] deep; cooper shop, 50 [illegible] storage of frame, 50 [illegible] the company are in [illegible] Bank Building, Nazara[illegible]

CONTRACT [illegible]

(Continued from [illegible] page.)

CONTRACT NO. 14. [illegible] same as Contract No. 7 [illegible] bids]:

General (aa) excavation and (bb) embankment—per cu. yd.:	(F)	(E)	(H)	(A)	(I)	(G)	(D)	(B)	(C)	(J)
(aa) Without classification	$0.50	$1.00	$0.75	$1.00	$0.40	$0.65	$0.95	$1.50	[illegible]	$1.22
(bb) Provided and placed by contractor on cars or carts	.45	.40	.75	.52	.35	.85	.47	.60	[illegible]	.75
(bb) Delivered on cars or carts and placed by contractor	.30	.30	.20	.20	.23	.35	.20	.40	[illegible]	.20
Masonry—per cu. yd.:										
1st class masonry with 3d class backing	8.00	9.50	9.50	8.40	8.50	10.00	13.00	10.35	[illegible]	11.00
2d class masonry with 3d class backing	7.00	9.00	8.50	8.25	8.00	9.00	11.00	9.55	[illegible]	11.00
3d class masonry above neat line	6.50	6.75	5.75	5.70	6.75	6.75	9.20	8.45	[illegible]	6.00
3d class masonry in foundations	5.00	5.50	5.40	5.25	6.00	6.25	8.00	8.20	[illegible]	5.00
Copings of 1-3-6 concrete	6.75	9.00	8.50	7.75	8.00	9.00	10.00	9.25	[illegible]	10.00
Granite bridge seats or pedestal blocks	50.00	15.00	33.00	30.00	33.00	40.00	35.00	42.00	[illegible]	40.00
1-2-4 concrete masonry (1½" stone)	7.25	9.50	7.75	8.50	9.00	10.00	14.00	9.75	[illegible]	9.25
Bridge seats and pedestal blocks—1-2-4 concrete masonry (¾" stone)	7.75	9.50	8.50	8.50	9.00	10.00	20.00	9.25	[illegible]	11.00
1-3-6 concrete masonry above neat line	6.45	7.50	6.45	5.55	6.75	7.00	6.15	8.15	[illegible]	6.50
1-3-6 concrete masonry above neat line—surface exposed to street	6.70	8.50	7.00	7.45	6.75	7.50	7.15	8.45	[illegible]	7.50
1-3-6 concrete masonry in foundations	6.00	5.50	5.65	5.25	6.00	6.50	5.50	7.65	[illegible]	5.00
Monuments of 1-3-6 concrete (¾" stone), 6" square, 3' 6" long, each	5.00	1.00	.50	3.00	3.00	10.00	2.50	10.00	[illegible]	3.00
Brick masonry in cement mortar	10.50	15.00	14.00	10.00	10.00	15.00	15.00	20.00	[illegible]	12.00
Brick masonry in underpinning	....	....	....	....	....	....	....	....	[illegible]	....
Dry stone packing	3.75	2.00	2.25	2.90	2.75	3.00	2.25	3.30	[illegible]	3.50
Corrugated asbestos boards in contraction joints, per sq. ft.	.16	.10	.15	.18	.20	.25	.20	.20	[illegible]	.25
Paving and curbing—(cc) per sq. yd.; (dd) per lin. ft.; (ee) per lb.:										
(cc) Granite blocks on sand base	1.85	2.75	1.98	2.10	2.10	3.00	2.17	2.40	[illegible]	2.25
(cc) Second-hand granite blocks on sand base	1.25	2.50	1.98	2.10	2.10	2.50	1.65	2.00	[illegible]	2.00
(dd) 5" straight blue stone curb	.48	.70	.60	.70	.60	1.00	.60	1.00	[illegible]	1.00
(dd) 5" curved blue stone curb	2.00	1.00	.90	1.50	.90	2.00	1.00	1.50	[illegible]	1.50
(dd) 6" straight granite curb	2.50	1.50	1.25	2.00	1.05	1.50	1.40	1.50	[illegible]	2.50
(dd) 6" curved granite curb	3.50	2.00	2.00	4.00	1.40	3.00	2.25	2.00	[illegible]	3.00
Iron drain pipe:										
(ee) 4" c.-i. pipe	.05	.03	.04	.10	.03	.04	.10	.04	[illegible]	.05
(ee) 6" c.-i. pipe	.03½	.03	.04	.10	.03	.04	.10	.04	[illegible]	.05
(ee) 8" c.-i. pipe	.05	.03	.04	.10	.03	.04	.10	.04	[illegible]	.05
(ee) 10" c.-i. pipe	.05	.03	.04	.10	.03	.04	.10	.04	[illegible]	.05
(ee) 12" c.-i. pipe	.05	.03	.04	.10	.03	.04	.10	.04	[illegible]	.05
(ee) 16" c.-i. pipe	.05	.03	.04	.10	.03	.04	.10	.04	[illegible]	.05
(ee) 18" c.-i. pipe	.05	.03	.04	.10	.03	.04	.10	.04	[illegible]	.05
Vitrified clay drain pipe:										
(ee) 4" V. C. pipe	.18	.20	.25	1.25	.25	.50	1.55	1.85	[illegible]	.15
(ee) 6" V. C. pipe	.27	.25	.40	1.35	.25	.50	2.10	1.90	[illegible]	.18
(ee) 8" V. C. pipe	.45	.30	.60	1.50	.30	1.00	2.10	2.00	[illegible]	.26
(ee) 10" V. C. pipe	.68	.40	.90	1.75	.40	1.00	2.10	2.15	[illegible]	.35
(ee) 12" V. C. pipe	.90	.50	1.20	2.00	.60	2.00	2.24	2.50	[illegible]	.45
(ee) 15" V. C. pipe	1.25	.75	1.60	2.25	.80	2.00	2.35	2.75	[illegible]	.58
(ee) 18" V. C. pipe	1.55	1.00	2.00	2.50	1.00	2.00	2.50	2.75	[illegible]	.71
(ee) 6" V. C. pipe back of retaining walls	.15	.25	.25	.22	.25	.50	.15	.45	[illegible]	.18
Lumber for miscellaneous work—per M. ft. B. M.										
Long-leaf yellow pine	60.00	60.00	50.00	70.00	45.00	65.00	50.00	60.00	[illegible]	50.00
Short-leaf or "sap" yellow pine	49.00	55.00	38.00	60.00	50.00	55.00	40.00	53.00	[illegible]	40.00
Hemlock	60.00	60.00	40.00	60.00	38.50	60.00	40.00	45.00	[illegible]	42.00
Trestle, crib-work and foundation lumber—per M. ft. B. M.										
Long-leaf yellow pine for trestles	40.00	55.00	50.00	43.00	46.00	65.00	53.50	50.00	[illegible]	50.00
White or chestnut oak for trestles	45.00	60.00	50.00	65.00	50.00	65.00	80.00	75.00	[illegible]	75.00
Short-leaf or "sap" yellow pine for trestles	36.00	47.00	38.00	41.00	37.50	55.00	44.25	40.00	[illegible]	40.00
Hemlock for trestles	40.00	50.00	40.00	41.00	37.50	60.00	50.00	40.00	[illegible]	42.00
Crib-work, including bolts and necessary embankment	20.00	40.00	35.00	30.00	22.00	55.00	20.00	25.00	[illegible]	30.00
Long-leaf yellow pine for foundations	60.00	60.00	50.00	50.00	40.00	65.00	100.00	45.00	[illegible]	46.00
Short-leaf yellow pine for foundations	49.00	55.00	38.00	50.00	32.50	55.00	100.00	40.00	[illegible]	36.00
Hemlock for foundations	60.00	60.00	40.00	50.00	32.50	60.00	100.00	40.00	[illegible]	38.00
Piling—per lin. ft.:										
White oak for piling	.90	.50	.40	.50	.50	.65	1.00	.60	[illegible]	.40
Yellow pine for piling	.75	.45	.35	.30	.50	.65	1.00	.55	[illegible]	.25
Spruce or hemlock for piling	.75	.45	.30	.30	.50	.65	1.00	.50	[illegible]	.25
Steel and iron—per lb.:										
Steel used in concrete reinforcement	.04	.03	.05	.05	.03	.10	.05	.05	[illegible]	.03½
Steel rails used in concrete reinforcement	.03	.02	.03	.07	.02	.10	.03	.03	[illegible]	.04
Structural steel	....	....	....	....	....	....	....	....	[illegible]	....
Wrought iron or steel in trestle details, etc.	.04	.05	.04½	.03¼	.03½	.08	.05	.05	[illegible]	.04½
Cast iron in place	.04¾	.03	.05	.03¼	.03	.08	.10	.04	[illegible]	.04½
Hand railing:										
Railing on retaining walls, per lin. ft.	.58	1.50	.65	.75	.70	3.00	.70	.70	[illegible]	1.25
Newel posts, each	4.95	10.00	6.00	9.25	5.85	10.00	7.00	6.00	[illegible]	8.00
Totals	$100,718	$119,877	$106,228	$105,371	$102,402	$138,250	$109,400	$134,490	[illegible]	$117,573
Time—working days	365	180	300	130	450	300	200	300	[illegible]	150

HAVRE DE GRACE, MD.—It is reported that the A. H. Fox Gun Co., A. H. Fox, Pres., 18th and Windrim Sts., Philadelphia, Pa., contemplates establishing plant in Havre de Grace. Estimated cost, $25,000.

BALTIMORE, MD.—The Baltimore Badge & Novelty Co., Third and Carroll Sts., will rebuild its plant recently destroyed by fire at a loss of $50,000.

PARKERSBURG, W. VA.—Charles Kane, proprietor of the Mountain State Boiler Works, will rebuild plant burned in October, it is stated. A temporary building is being erected which will be used until spring, when a concrete structure will be built. A stock company will be organized with $25,000 capital stock and the equipment of the plant increased.

CHARLOTTE, N. C.—The plant of the Queen City Printing & Paper Co., 14 East Fourth St., recently burned, will be rebuilt. A 3-story building, 30 × 100 ft., will be erected. Cost of building, $12,000; cost of machinery to be installed, $20,000. Hook & Rogers, Trust Bldg., are Archs.

The Southern Ry. Co. will erect roundhouse in North Charlotte to cost about $27,000. D. W. Lum, Washington, D. C., is Ch. Engr.

LONG ISLAND, S. C.—Work will probably soon commence on the proposed yarn mill to be erected at Buffalo Shoals by the Long Island Cotton Mills of Long Island. In connection with this plant a water-power electrical plant is to be built to develop 500 HP., which can be doubled when needed. The mill will have an equipment of 5,000 spindles, but its capacity will be 10,000. The cost of both will be about $130,000. A 3,000-spindle addition to the present mill of the company is to be erected also. The capital stock has been increased from $50,000 to $200,000 to provide for these improvements. Osborne Brown is Pres.

Contract No. 26.—The bidders were: (F) Armstrong & Latta; (L) Wm. Steele & Sons Co., 1600 Arch St., Philadelphia; (H) John A. Kelly; (M) Henry E. Baton, Pennsylvania Bldg., Philadelphia; (N) Edward Fay & Son, 2666 Richmond St., Philadelphia; (O) F. J. Boos, 14 South Broad St., Philadelphia; (A) James McGraw Co.; (P) Nolan Bros., Reading, Pa.:

General (aa) excavation and (bb) embankment, per cu. yd.:	(F)	(L)	(H)	(M)	(N)	(O)	(A)	(P)
(aa)	$0.30	$0.57	$0.50	$0.47½	$0.30	$0.42	$0.38	$0.95
(bb) By contractor	.25	.46	.50	.50	.25	.88	.52	.50
(bb) Delivered to contractor. Additional items: (cc) per cu. yd.; (dd) per lin. ft.; (ee) per lb.; (ff) per M. ft. B. M.:	.20	.33	.20	.35	.25	.35	.20	.50
(cc) Excavation	.70	.57	.75	.50	.80	.60	1.00	.95
(cc) 1-3-6 Concrete, neat	7.00	6.75	7.00	8.50	8.75	7.50	6.50	8.00
(cc) 1-3-6 Concrete foundation	6.50	6.75	6.50	7.50	7.75	6.50	6.00	7.00
(dd) 4-in. c. i. pipe	.87	.78	.85	.80	1.00	.60	1.25	.88
(dd) 6-in. c. i. pipe	1.15	1.05	1.10	1.10	1.25	1.00	1.50	1.10
(dd) 8-in. c. i. pipe	1.53	1.40	1.50	1.50	1.50	1.20	2.00	1.60
(dd) 12-in. c. i. pipe	2.25	2.32	2.20	2.25	2.00	2.10	3.00	2.20
(dd) 8-in. c. i. pipe	.53	.60	.50	.75	.60	.70	.75	.55
(ff) Long leaf yellow pine lumber	60.00	55.00	50.00	50.00	50.00	55.00	50.00	59.00
(ff) Short leaf or sap yellow pine	49.00	50.00	38.00	47.00	45.00	45.00	40.00	54.00
(ff) Hemlock lumber	60.00	45.00	40.00	47.00	47.00	48.00	50.00	39.00
(ff) White oak lumber	70.00	65.00	55.00	65.00	75.00	65.00	70.00	30.00
(ff) Crib work	20.00	45.00	35.00	50.00	30.00	30.00	30.00	65.00
(ee) Structural steel, rods, etc.	.04½	.05	.05	.06	.10	.08	.05	.05
(ee) Cast iron	.04½	.05	.05	.05	.08½	.05	.05	.04
4-in. gate valves, each	9.25	16.50	10.66	13.50	12.00	15.00	10.00	10.00
6-in. gate valves, each	22.75	23.10	25.00	20.00	18.00	25.00	25.00	25.00
12-in. gate valves, each	55.50	62.82	60.00	50.00	60.00	60.00	60.00	60.00
Iron gate valve boxes, each	6.25	5.78	7.00	7.00	7.00	6.00	7.50	7.00
Totals	$47,219	$56,060	$58,490	$53,125	$55,055	$55,610	[illegible]	$83,128
Time—working days	150	100	200	125	150	120	100	150

MERIDIAN ...S.—Frank Marty, Sr., of ...this city, will ...ruct an iron foundry with a capacity of ...ons a month.

PORTSMOU... OHIO.—C. F. Losh, Div. Engr., Norfolk ... Western Ry. Co., Turley Bldg., has a... contract to the AL... PHONSE ... OIS CHIMNEY CONSTRUCTION ... Cleveland, for a 175-ft. brick stack ... Portsmouth yards.

LIMA, OH... is reported that A. S. Bower will h... ...us prepared for a 3-story bakery, to c... ...cut $20,000.

CINCINNA... HIO.—C. W. Longhead contemplates ...g a 1-story dry cleaning establish... ...and a detached boiler house, to co... ...00).

INDIANA... IND.—The State Board of Agriculture, ... Downing, Secy., has decided to build ...achinery hall on the State Fair Ground...

CHICAGO ... HTS, ILL.—J. Bonnett, of the Bonnett... Stove Co., is taking estimates on a ...tory building to replace the building re... destroyed by fire. The structure will ... two stories, 100 × 200 ft., of brick and ... Cost, $30,000.

CHICAGO ...—The E. J. Noblett Co., 121st and G... Sts., will establish a woodworking plan... which it will plan and build itself. A. H... oblett is Secy.

OCONTO F... LS, WIS.—Contracts will be let at once ... stated, for rebuilding the mill of the ... Mfg. Co., recently burned. The proposed ... new power plant will have a capacity of ... HP. Probable cost of work, $100,000. Jo...son & De Guire, of Grand Rapids, are Archts.

STILLWATER, MINN.—Clarence H. Johnston, Arch., Manhattan Bldg., St. Paul, has completed plans for a 3-story wing to factory building at the Stillwater prison; also for a power plant.

MINNEAPOLIS, MINN.—The Nodamp Machinery Co., of Minneapolis, Minn., manufacturing of concrete machinery, may enlarge its plant in the spring and install additional machinery. F. W. Tidhall is Pres.; D. J. Ames, Vice-Pres., and J. T. Thurman, Secy. and Treas.

FAIRBURY, NEB.—W. F. Gernandt, of Fairbury, is preparing plans for a 2-story planing mill, 142 × 50 ft., for the Fairbury Planing Mill Co., to cost $20,000.

KELSO, WASH.—J. H. Gonson will expend about $15,000 to establish an excelsior factory here, and it is probable that more will be invested later.

EDMONDS, WASH.—The Washington Steel & Bolt Co., Edmonds, Wash., contemplates installing a rolling mill soon to run in conjunction with its present works.

ROSEBURG, ORE.—The H. S. Gile Fruit Packing Co., of Salem, Ore., has secured ground on which to construct a building for packing all kinds of fruit. The building will be three stories high and will be equipped with modern machinery.

LOS ANGELES, CAL.—Plans for the erection of a $400,000 mill for the Los Angeles Cotton Mills Co. have been completed. The plant will occupy a ground area of nearly three acres and probably will be located on a site near the Los Angeles River. The main structure, housing the carding, spinning and weaving rooms will be 500 × 190 ft., one-story high. It will be built of brick. Denis Howarth and A. H. Beach are interested.

COEUR D'ALENE, IDAHO.—The UNION IRON WORKS, of Spokane, Wash., has contract for the iron work for the proposed Coeur d'Alene Brewing & Malting Co. C. Bernhard is Pres.

HALIFAX, N. S.—The Nova Scotia Garment Mfg. Co. of this city, proposes adding a third story and a 75-ft. wing to its building. Bids will be called for soon for this work.

TORONTO, ONT.—The factory and storage room for the Toronto branch of the Frank H. Fleer Co., 24th and Hamilton Sts., Philadelphia, will be constructed soon on Sterling Road. It will be built of reinforced concrete and cost about $75,000.

BARRIE, ONT.—The Grand Trunk Railway system proposes erecting car shops here for the northern division, if the town of Barrie will grant a fixed assessment. The town is willing to do this. Plans and estimated cost of the proposed shops will be furnished by the railway company soon. W. McWood is Supt. Car Dept., Montreal, Que.

NIAGARA FALS, ONT.—T. E. FERRIS has secured the contract for the stone foundations and W. S. HOLMAN the contract for the superstructure for the proposed factory for C. S. Peaslee & Son, Niagara Falls, Ont.

VICTORIA, B. C.—The Redcliffe Lumber Co., of Wisconsin, will remove its mill to Victoria, where it proposes erecting a plant to cut 250,000 ft. a day.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

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*SNAGBOATS.—Mobile, Ala.—Bids are asked until 11 a. m., Feb. 10, by Maj. H. Jervey, Corps Engrs., U. S. A., for constructing two wooden hull stern-wheel snagboats.

PAVING BRICK.—Detroit, Mich.—Bids are asked until 10 a. m., Jan. 17, by the Department of Public Works, J. J. Haarer, Comr., for furnishing and delivering 1,000,000 paving brick.

DITCH.—Aitkin, Minn.—Bids were received on Jan. 7 by Fred. Stearns, County Audr., for constructing Ditch No. 4. Contract was awarded to D. M. FALCONER, of Aitkin, at 14 cts. a cu. yd.

POWER LAUNCHES.—New York, N. Y.—Bids are asked by Theo. A. Bingham, Police Comr., until 10 a. m., Jan. 27, for making, completing and delivering two power launches for the Police Department of the city of New York.

FIRE HOSE AND APPARATUS.—New York, N. Y.—Bids are asked until 2:30 p. m., Jan. 24, by R. W. Hebberd, Comr. Public Charities, for furnishing and delivering fire hose and apparatus.

GASOLINE AUTOMOBILE.—New York, N. Y.—Bids are asked by Theo. A. Bingham, Police Comr., until 10 a. m., Jan. 27, for furnishing and delivering one gasoline touring 5-passenger car.

*WALLS.—Buffalo, N. Y.—Bids are asked until 11 a. m., March 14, by Col. H. M. Adams, Corps Engrs., U. S. A., for constructing concrete walls for Ship Lock, Black Rock Harbor, Buffalo.

*DREDGE.—Galveston, Tex.—Bids are asked until 2.30 p. m., Feb. 14, by Maj. J. C. Sanford, Corps Engrs., U. S. A., for constructing one steel twin-screw suction dredge for Galveston Harbor.

*REPAIRING WHARF.—Boston, Mass.—Bids are asked until 10 a. m., Feb. 10, by Capt. Ira L. Fredendall, Constr. Q. M., for repairing wharf at Fort Strong, Long Island, Boston Harbor, Mass.

DREDGING.—Racine, Wis.—The Board of Commissioners of Racine County will let contracts about July 1 for dredging a canal in towns of Norway and Dover, Racine County. Dredges will be required. Estimated cost, $100,000.

CONCRETE DAM, ETC.—Fort Wayne, Ind.—The Fort Wayne & Wabash Valley Traction Co. will build a concrete dam, culverts and controlling works at Robinson Park. Estimated cost, $35,000. H. L. Weber, Ch. Engr., will prepare the plans.

DITCHES.—Elbow Lake, Minn.—Bids are asked until 1 p. m., Feb. 7, by O. E. Wold, County Audr., for constructing drainage ditches No. 3 and No. 5. Estimated quantities, details, etc., are on file at office of Engineering News, New York.

DREDGING.—Chandlerville, Ill.—Bids are asked until noon, Jan. 18, for construction of four miles of ditch along the Sangamon River. John Goodell, Engr., Chandlerville. N. H. Boone, J. T. Adkins, W. W. Hammond, Comrs. Farmers' Drainage Dist.

CONCRETE DAM.—Los Angeles, Cal.—Bids are asked by T. J. Cochrane, Treas., Pacific Branch, N. H. D. V. S., Soldiers' Home, Los Angeles County, Cal., until noon, Jan. 30, for construction of a submerged concrete dam at pumping plant. Plans on application.

BULKHEAD. — Montgomery Ala. — Bids were received on Dec. 21 by Capt. H. B. Ferguson, Corps Engrs., U. S. A., Montgomery, for constructing timber bulkhead, 8,000 ft. long, at mouth of Apalachicola River, Fla. Contract was awarded to J. H. GARDNER, New Orleans, La., at $288 per running 100 ft.

AIR COMPRESSORS.—Los Angeles, Cal.—The Board of Public Works has awarded the contract for furnishing the air compressors for the Elizabeth Lake tunnel, Los Angeles aqueduct, to the MACHINERY & ELECTRICAL CO., at $6,720; the SMITH-BOOTH-USHER CO. received the contract for the cycloidal blowers at $1,375.

CEMENT, LUMBER, SAND, ETC.—New York, N. Y.—Bids are asked until noon, Jan. 28, by Geo. Cromwell, Pres. Boro. Richmond, for furnishing and delivering 3500 bbls. of Portland cement; 20 M. ft. B. M. spruce and 5 M. ft. B. M. yellow pine lumber; 800 cu. yds. of building sand.; and 10,000 tons of 1½-in. or ¾-in. broken stone or screenings on Richmond Valley Road and Amboy Road or Ave. The other items are to be delivered at such points within the Borough of Richmond and in such quantities from time to time, as the Superintendent of the Bureau of Highways may direct.

*DUMP SCOWS.—Wilmington, N. C.—Bids were received as follows on Jan. 10 by Capt. Earl I. Brown, Corps Engrs., U. S. A., for two 6-pocket bottom dump scows, (to be delivered in six months): American Car & Foundry Co., Wilmington, Del., $44,600; Sanford & Brooks Co., Baltimore, Md., $30,630; Southern Shipbuilding Co., Tottenville, N. Y., $37,900;; Newport News Shipbuilding & Dry Dock Co., New York, N. Y., $30,500; B. K. Richardson, Nario, Florida, $33,600; Wilmington Iron Works, Wilmington, N. C., $39,978; Smith & Robinson, Philadelphia, Pa., $33,380; Louis H. Skinner, Wilmington, N. C., $31,800. Alternate proposal: American Car & Foundry Co., Wilmington, Del., $39,600.

DREDGING.—Washington, D. C.—Bids were received as follows Jan. 11, at the office of Major Spencer Cosby, Engr., Corps, U. S. A., for dredging about 523,000 cu. yds. of material from the Rappahannock River, Va.: Atlantic Dredging Co., Philadelphia, 29 cts. per cu. yd. Maryland Dredging & Contracting Co., Baltimore, 15.25 cts. Miner Engineering Co., Washington, 22.5 cts. American Dredging Co., Philadelphia, 17 cts. Bowers Hydraulic Dredging Co., Camden, N. J., 14.9 cts. T. Sanford Ross, Inc., Jersey City, N. J., 19.48 cts. Sanford Brooks Co., 24 Commerce St., Baltimore, 17 cts. Lewis & French, Norfolk, Va., 27.3 cts.

CONTRACT PRICES.

(Continued from preceding page.)

Contract No. 8—(AA) American Bridge Co., Pennsylvania Bldg., Philadelphia; (BB) McClintic, Marshall Construction Co., Pottstown, Pa.; (CC) M. P. Quinn, Fidelity Bldg., Philadelphia; (DD) Mack Paving & Construction Co., Land Title Bldg., Philadelphia; (EE) C. L. Strobel, Monadnock Block, Chicago; (FF) Shoemaker & Co., Harrison Bldg., Philadelphia:

	(AA)	(BB)	(CC)	(DD)	(EE)	(FF)
Hand railing, per lin ft.	$0.55	$0.48	$1.73	$1.50	$2.00	$2.00
Newel posts for hand railing, each	5.40	10.00	6.00	10.00	25.00	15.00
Additional:						
Shields, per lin. ft.	5.50	5.50	6.00	4.00	5.00	5.00
Newel posts for shields, each	27.00	25.00	30.00	16.50	25.00	25.00
Structural steel work, per lb.	0.04	0.0353	0.04	0.04	0.03¾	0.04
Cast iron, per lb.	.06	.03½	.08	.04	.05	.03½
Long leaf yellow pine lumber, per 1,000 ft. B. M.	65.00	45.00	57.00	60.00	55.00	80.00
"Hydrex Felt" or equal, 5 layers with Hydrex Compound, per sq. ft.	.25	.15	.23	.20	.17	.20
Asphalt mastic, per cu. yd.	75.00	38.00	67.00	50.00	45.00	75.00
1-3-6 concrete (¾-in. stone), per. cu. yd.	9.00	6.60	11.00	7.00	10.30	10.00
1-3-6 concrete (1½-in. stone), per cu. yd.	9.00	6.60	11.00	7.00	10.30	10.00
3-in. standard galvanized wrought iron pipe, per lin. ft.	.45	.60	.27½	.75	.35	.42
2-in. "Loricated" conduit, lin. ft.	.28	.30	.30	.25	.35	.22
2½-in. Bituminized fire conduit, per lin. ft.	.28	.16	.30	.25	.30	.28
Malleable gas pipe fittings, per lb.	.17	.06	.25	.10	.12	.12
Additional, per hour—						
Foreman	.90	.90	.50	.60	1.25	1.00
Erector, reg. working hours	.75	.60	.75	.62½	.85	.75
Erector, overtime	1.05	.85	1.12	1.25	1.25	1.50
Riveter, reg. working hours	.75	.60	.75	.62½	.85	.75
Riveter, overtime	1.05	.85	1.05	1.25	1.25	1.50
Laborer, reg. working hours	.40	.25	.22	.35	.45	.40
Laborer, overtime	.55	.35	.25	.70	.65	.80
Engineer, reg. working hours	.75	.60	.75	.55	.90	.75
Engineer, overtime	1.05	.85	1.05	1.10	1.35	1.50
Blacksmith, reg. working hours	.75	.60	.75	.62½	.85	.75
Blacksmith, overtime	1.05	.85	1.05	1.25	1.25	1.50
Blacksmith's helper, reg. working hours	.40	.40	.40	.33	.65	.40
Blacksmith's helper, overtime	.60	.60	.60	.66	.90	.80
Carpenter, reg. working hours	.60	.55	.60	.40	.80	.75
Carpenter, overtime	.85	.80	.83	.60	1.15	1.50
Stone mason, reg. working hours	.75	.60	.70	.60	.85	.75
Stone mason, overtime	.90	.85	.85	.90	1.25	1.50
Stone cutter, reg. working hours	.75	.60	.70	.60	.85	.75
Stone cutter, overtime	.90	.85	.85	.90	1.25	1.50
Cement finisher, reg. working hrs.	.55	.60	.50	.50	.85	.75
Cement finisher, overtime	.80	.85	.75	.75	1.25	1.50
Use of derrick	.50	.50	1.25	.50	.50	5.00
Use of boiler and hoisting engine	1.00	.60	1.00	1.00	1.00	2.00
Additional use of boiler, pump and fuel	.50	1.00	1.25	2.00	1.00	2.00
Additional materials specially ordered, per cent	15	10	10	20	10	10
Additional hard bricks in hydrex compound, per sq. ft.	.20	.15	.15	.25	.20	.25
Totals	$360,493	$336,385	$367,174	$398,354	$370,896	$387,645
Time—working days	350	400	360	500	310	300

For bridges, furnished and erected complete, lump sums were given.

Additional items for contracts No. 5, No. 7, No. 14 and No. 26 per hour. The bids submitted on each contract were the same. The bidders were: (A) James McGraw Co., bid on the four contracts; (B) the Hoffman Engineering Co.—Contracts 5, 7, and 14 only; (C) the Ferguson Contracting Co.—Contracts 5 and 7; (D) Millard Const. Co.—Contracts 5, 7 and 14; (E) Mack Paving & Construction Co.—5, 7 and 14; (F) Armstrong & Latta—on the four contracts; (G) David Lupton's Sons—5, 7 and 14; (H) John A. Kelly Co.—on the four contracts; (I) McGaw & Gray—contracts 7 and 14; (J) W. L. Gallagher—7 and 14; (K) Reilly & Riddle—7 and 14; (L) William Steele & Sons Co.—contract 26 only; (M) Henry E. Baton—26 only; (N) Edward Fay—26 only; (O) F. J. Boos—26 only; (P) Dolan Bros.—26 only. (No bids were submitted on second third, fourth and fifth items on contract No. 14).

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
Foreman	$0.50	$0.60	$0.60	$0.60	$0.60	$0.60	$0.60	$0.40	$0.50	$0.40	$0.55	$0.55	$1.00	$0.55	$0.50	$0.60
Erector, reg. work'g hrs.	.80	1.00	.40	.70	.60	.60	.60	.65	.50	.75	.60	.60	.60	.55	.60	.50
Erector, overtime	1.25	1.50	.60	1.00	1.00	.90	.90	1.25	.75	1.05	.90	1.20	.90	.65	.90	.90
Riveter, reg. work'g hrs.	.80	.60	.40	.70	.50	.60	.60	.65	.50	.45	.60	.70	.60	.55	.60	.39
Riveter, overtime	1.25	.90	.60	1.00	.75	.90	.90	1.25	.75	.75	.90	1.40	.90	.65	.90	.60
Laborer, reg. w'k'g hrs.	.25	.25	.18	.20	.20	.17½	.25	.17½	.20	.20	.19	.25	.25	.22	.20	.25
Laborer, overtime	.40	.35	.27	.30	.20	.26½	.40	.26	.25	.20	.27	.37½	.35	.25	.25	.35
Engineer, reg. w'k'g hrs.	.50	.40	.33	.45	.40	.40	.50	.40	.40	.50	.40	.60	.60	.50	.50	.40
Engineer, overtime	.80	.60	.50	.60	.60	.60	.75	.60	.60	.75	.60	1.20	.90	.60	.75	.60
Bl'ksmith, reg. w'k'g hrs.	.60	.40	.33	.50	.40	.40	.50	.55	.40	.40	.40	.60	.60	.50	.40	.30
Blacksmith, overtime	.80	.60	.50	.75	.60	.60	.75	.85	.60	.70	.60	.90	.90	.60	.60	.50
Blacksmith's helper, regular working hours	.40	.30	.25	.30	.30	.30	.35	.25	.30	.35	.25	.45	.40	.35	.30	.26
Blacksmith's helper, overtime	.60	.45	.37½	.50	.30	.45	.55	.38	.45	.50	.37½	.67½	.60	.45	.35	.26
Carpenter, reg. w'k'g hrs.	.75	.60	.40	.60	.40	.45	.60	.55	.50	.55	.50	.50	.60	.55	.50	.55
Carpenter, overtime	1.30	.90	.60	.80	.60	.69	.90	.82	.75	.75	.75	1.00	.90	.65	.60	1.10
Stone mason, regular working hours	.50	.50	.40	.60	.50	.55	.60	.55	.50	.70	.45	.60	.70	.55	.50	.35
Stone mason, overtime	.80	.75	.60	.80	.75	.83	.90	.82	.75	.95	.67½	1.20	1.05	.65	.60	.52
Cement finisher, regular working hours	.60	.50	.30	.60	.50	.40	.60	.55	.40	.45	.45	.60	.55	.55	.50	.35
Cement finisher, overtime	.90	.75	.45	.80	.50	.60	.90	.82	.60	.70	.67½	.90	.75	.65	.75	.52
Stone cutter, regular working hours	.60	.50	.40	.60	.50	.90	.60	.55	.50	.70	.45	..	..	..	..	..
Stone cutter, overtime	.90	.75	.60	.80	.75	1.35	.90	.82	.75	.95	.67½	..	..	..	..	..
Drill runner, regular working hours	.60	.40	.30	.50	.40	.35	.60	.40	.30	.55	.35	..	..	..	..	..
Drill runner, overtime	.90	.60	.45	.70	.60	.53	.90	.60	.45	.75	.52½	..	..	..	..	..
Watchman, day work	.25	.25	.18	.25	.25	.17½	.30	.25	.20	.30	.20	.20	.20	.20	.25	.25
Watchman, night work	.40	.25	.25	.25	.25	.17½	.45	.35	.25	.30	.20	.30	.20	.20	.25	.25
Use of horse and cart, including driver	.50	.35	.35	.50	.50	.35	.40	.35	.35	.40	.35	.40	1.00	.35	3.25	.60
Use of team (2 horses & wagon) includ'g driver	.80	.70	.55	.80	.70	.60	.75	.65	.60	.70	.40 .60	.65	1.25	.60	5.50	.75
Use of derrick*	1.00	1.00	.50	2.50	.30	3.00	1.50	.50	.35	1.00	.50	.45	.75	.50	.50	.50
Use of boiler and hoisting engine	1.00	1.00	1.00	2.50	1.00	1.00	1.50	.50	.75	1.00	.50	.60	1.50	.80	1.00	* 1.00
Use of pump & boiler	1.00	1.00	.70	2.50	1.00	1.00	1.50	.50	.60	1.00	.50	.70	1.50	.85	.75	1.00
Use of steam drills	1.00	1.00	.40	1.50	.50	1.00	1.50	.10	.35	.50	.10	..	..	..	..	..
Materials—specially ordered, per cent	20	15	5	10	20	3	15	10	10	15	10 .15	10	10	10	10	15
Plumber, regular hours	..	..	..	..	..	..	..	..	..	..	..	.83	1.00	.55	.50	.60
Plumber, overtime	..	..	..	..	..	..	..	..	..	..	..	1.24	1.50	.60	.75	.90

* (E) bid 30 cts. on contracts No. 5 and No. 14 and $1 on Contract No. 7.

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

QUARRIES.—Rochester, N. Y.—H. B. Hooker & Son, Wilder Bldg., Rochester, N. Y., desire to learn of stone and granite quarries within 300 miles of Rochester.

CONTRACTOR'S EQUIPMENT.—Salt Lake City, Utah.—Benj. F. Tibby, 308 Utah Savings & Trust Co. Bldg., Salt Lake City, Utah, writes us that he desires trade publications on scrapers, carts, drills, etc., for use on railroad grading work.

MACHINERY.—San Antonio, Tex.—Edwin Chamberlain, San Antonio, Tex., desires to learn the names of manufacturers of machines for the utilization of charcoal dust; machines to harvest corn; grind maize and at the same time to reduce the stems, core and leaves to forage; machines for a tannin extract plant; makers of portable machine saws for felling trees; makers of kilnes for burning lime from limestone; makers of hay presses operated by animal power.

TIMBER SAW.—Bayside, N. Y.— H. T. Weeks, Bayside, N. Y., writes us that he is in the market for a timber rip saw for use on logs of 2 ft. diameter and also cross-cut timber saws.

CEMENT BLOCK MACHINES.—Savannah, Ga.—We are advised that Eldred Simkins, Room 1014 National Bank Bldg., Savannah, Ga., desires to receive catalogs and information in relation to cement block machines.

CEMENT AND CONCRETE MACHINERY. —Boston, Mass.—J. W. Falconer, Box 3612, Boston, Mass., writes that he desires catalogs of cement and concrete machinery.

TRADE CATALOGS.—Terre Haute, Ind.—The Indiana Engineering Co., 7th and Cherry Sts., Terre Haute, Ind., advises us of its recent organization and states that all catalogs and trade publications of use in an engineering office are desired.

For other Proposal Advertisements see pages 43, 44, 49 of Advertisements and Construction News page 22.

CAST-IRON PIPES AND CASTINGS.

Office of the Board of Contract and Supply, Yonkers, N. Y., January 13, 1908.

Sealed proposals will be received at the office of the Board of Contract and Supply, Manor Hall, Yonkers, N. Y., until nine o'clock A. M., Monday, February 3, 1908, for furnishing and delivering at Yonkers, N. Y., the following pipes and castings: 1,000 lengths of eight-inch pipe, weighing 600 pounds per length; 500 lengths of six-inch pipe weighing 400 pounds per length; 50 lengths of four-inch pipe weighing 250 pounds per length; 50 lengths of 3-inch pipe weighing 165 pounds per length; also 10 tons of Special Castings. To be delivered on the Public Dock in the City of Yonkers on or before April 1st, 1908.

Each proposal must be accompanied by a certified check for ten per cent. (10%) of the total amount of the proposal, drawn to the order of Gideon H. Peck, Treasurer of the City of Yonkers, to be forfeited upon failure to enter into a contract, within ten days after notice. The checks of unsuccessful bidders will be returned within three days after the contract has been awarded.

JAMES D. McINTYRE, Secretary.

SANITARY SEWER SYSTEM.

Tecumseh, Michigan, Jan. 8th, 1908.

Sealed bids will be received by the Board of Trustees of the Village of Tecumseh, Michigan, at the council chamber, until one o'clock P. M., February 4th, 1908, for furnishing all labor and material for building:

1,020 ft. 15-inch pipe sewer.
500 ft. 12-inch pipe sewer.
11,348 ft. 10-inch pipe sewer.
28,227 ft. 8-inch pipe sewer.
14,674 ft. 6-inch pipe sewer.

Together with all necessary manholes, flush tanks, masonry and Y branches.

Bidding blanks and schedules will be furnished by the Corporation Clerk.

Plans and specifications may be seen at the office of the Clerk in Tecumseh.

A certified check on local bank for $1,000.00 must accompany each bid as a guarantee of good faith.

A surety bond for $25,000.00 will be required of the successful bidder.

The Board of Trustees reserve the right to reject any or all bids or to waive defects in bids in the interest of the Village.

By order of the Board.

W. L. JONES.
Clerk.

PAVING.

Atlantic City, N. J.

Sealed bids or proposals endorsed "Proposal for Street Paving," with the name of the person or corporation making the bid will be received by the City Council of Atlantic City, N. J., at Council Chambers in the City Hall, between the hours of 8.00 and 8.30 P. M., Monday, January 27, 1908, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title, by which the bids will be tested is the furnishing, setting and laying of:

722 sq. yds. Gravel Pavement.
4,906 sq. yds. six-inch Macadam Pavement.
739 sq. yds. twelve-inch Telford Pavement.
3,048 sq. yds. Vitrified Fire Clay Block Pavement and Gutters, including concrete foundations.
86 cu. yds. Concrete not covered by Block Pavement.
3,617 ft. B. M. Lumber.
2,415 cu. yds. Excavation.
883 cu. yds. Filling.
3,879 lin. ft. straight 5" × 18" granite curbing, furnished and set (not including concrete supports).
266 lin. ft. curved 5" × 18" granite curbing 10' R., furnished and set (not including concrete supports).
25 lin. ft. curved 5" × 18" granite curbing 2' R., furnished and set (not including concrete supports).
1,239 lin. ft. straight 4" × 16" Bluestone curbing, furnished and set.
13 lin. ft. curved 4" × 16" Bluestone curbing, 4' R., furnished and set.
19 lin. ft. curved 4" × 16" Bluestone curbing, 2' R., furnished and set.
50 lin. ft. Curbing reset.
9 Holes cut in granite curbing.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company drawn to the order of Albert Beyer, City Treasurer, for the sum of Two Thousand Five Hundred ($2,500.00) Dollars.

Surety company bond will be required in the sum of one-half of the contract price for the entire work based upon the estimated quantities herein given.

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contract, Specifications, printed envelopes and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622, Bartlett Building.

WALTER J. BUZBY,
ISAAC BACHARACH,
JOHN S. WESTCOTT,
SAMUEL S. PHOEBUS,
THOMAS ROBERTS.
Street Committee of City Council.
J. W. HACKNEY, City Engineer.

SEWER.

Office of the City Engineer.
Bartlesville, Oklahoma, January 6, 1908.

Sealed proposals will be received at this office until 6.00 P. M., January 27, 1908, for furnishing all material and constructing complete, about

25,000 feet of 8-inch tile sewer.
6,000 feet 10-inch tile sewer.
3,500 feet 12-inch tile sewer.
750 Ys.
2,600 cubic yards rock excavation.
35,000 feet of trench from 4 to 16 feet deep.
85 manholes.
100 cubic yards concrete masonry.

Plans may be seen, specifications, forms of contract and proposals may be obtained at this office. City bonds have been issued for the payment of this work. The right is reserved to reject any or all bids.

E. C. D'YARMETT,
City Engineer.

U. S. ENGINEER OFFICE, Buffalo, N. Y., January 14, 1908.—Sealed proposals for the construction of concrete walls for Ship Lock, Black Rock Harbor, at Buffalo, N. Y., will be received at this office until 11 o'clock A. M., March 14, 1908, and then publicly opened. Information furnished on application. H. M. ADAMS, Col. Engrs.

OFFICE OF THE COMMISSIONERS, D. C., Washington, January 9, 1908.—Sealed proposals will be received at this office until 12 o'clock noon, January 25, 1908, for constructing an addition to the Eastern Market House, including the Fish Market to the west, located at North Carolina Avenue and Seventh Street, Southeast. Forms, specifications, information and necessary proposal blanks may be obtained at this office, Room No. 43. H. B. F. MACFARLAND, HENRY L. WEST, JAY J. MORROW, Commissioners, D. C.

PAVING AND DRAINAGE.

Atlantic City, N. J.

Sealed bids or proposals endorsed "Proposal for Repaving Pacific Avenue and Constructing Drainage Conduits," with the name of the person or corporation making the bid will be received by the City Clerk of Atlantic City, N. J., at Council Chambers in the City Hall, between the hours of 8.00 and 8.30 o'clock P. M., Monday, January 27, 1908, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title, by which the bids will be tested, is the furnishing and setting of:

23,500 sq. yds. of asphalt pavement.
1,040 lin. ft. of bluestone heading stones.
1 Drainage system, complete, consisting of 25 lines of conduits as per plans, including new vitrified fire clay block gutters upon concrete around the 50 curved corners at the ends of the conduits.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company drawn to the order of Albert Beyer, City Treasurer for the sum of Ten Thousand ($10,000.00) Dollars.

Surety company bond will be required in the sum of one-half of the contract price for the entire work based upon the estimated quantities herein given.

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contracts, Specifications, printed envelopes and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622, Bartlett Building.

WALTER J. BUZBY,
ISAAC BACHARACH,
JOHN S. WESTCOTT,
SAMUEL S. PHOEBUS,
THOMAS ROBERTS.
Street Committee of City Council.
J. W. HACKNEY, City Engineer.

BRIDGE.

Opelousas, La.

Sealed bids will be received up to Februruary 3d, 1908, at 12 m., Police Jury room, Opelousas, La., for the construction of a steel bridge and earth approaches over Bayou Carron, at Washington, La. All bids to be accompanied with certified check of Five Hundred Dollars, made payable to Dr. W. F. Clopton, President of Police Jury. Plans and specifications will be on file with J. J. Healey, Clerk. Address all bids to A. J. MULLER, Chairman, Washington, La.

Department of Public Works,
Bureau of Water,
Office, 790 City Hall.
Philadelphia, January 11, 1908.

Sealed proposals, endorsed "Bids for (Name work bid upon)" and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock noon, on January 30, 1908, for Contract No. 133—Shelter Houses for Torresdale Filters; Contract No. 136—Boiler Equipment for the Roxborough Pumping Station.

Specifications, drawings and blank forms upon which bids must be made can be obtained from the Chief Engineer of the Bureau of Water, Room 790 City Hall, to whom all communications should be addressed.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

GEO. R. STEARNS, Director.

OFFICE CONSTRUCTING QUARTERMASTER, U. S. A., 263 Summer Street, Boston, Mass., January 11, 1908. Sealed proposals, in triplicate, will be received at this office until 10 o'clock A. M., February 10, 1908, and then opened, for making repairs to wharf at Fort Strong, Long Island, Boston Harbor, Mass. Plans can be seen, and specifications, blank forms and all information obtained at this office. United States reserves the right to reject any or all proposals. Envelopes should be endorsed "Proposals for Repairs to Wharf, Fort Strong, Mass.," and addressed to CAPTAIN IRA L. FREDENDALL, Constructing Quartermaster.

OFFICE OF THE CONSTRUCTING QUARTERMASTER, Madison Barracks, N. Y., January 11, 1908.—Sealed proposals in triplicate will be received here until 2 P. M., February 15, 1908, and then opened, for constructing a 300,000-gallon steel tank; Quartermaster stable and wagon shed; one set of quarters; about 6,000 square feet of concrete sidewalk, and remodeling old mess building. Information furnished on application. Envelopes containing proposals should be endorsed "Proposals for Construction Work," and addressed to Constructing Quartermaster. R. W. DRURY, 2d Lieut., 9th Infantry, Constructing Quartermaster.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 13th, 1908.—Sealed proposals will be received at this office until 12 o'clock M. on the 25th day of February, 1908, and then opened, for the construction (completion), of the U. S. Post Office and Court House at Marinette, Wisconsin, in accordance with the drawings and specification, copies of which may be had at this office or at the Post-Office at Marinette, Wis., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

FORT DUPONT, DEL., Office of the Constructing Quartermaster, DELAWARE CITY, DEL., January 13, 1908.—Sealed proposals, in triplicate, will be received until 11 A. M., February 12, 1908, for constructing Boat House at Fort DuPont, Del. Information furnished upon application. A deposit of Five Dollars required for each set of plans and specifications loaned. The United States reserves right to accept or reject any or all bids or any part thereof. Envelopes containing bids should be indorsed "Proposals for Boat House," and addressed to CAPTAIN J. L. KNOWLTON, Constructing Quartermaster.

U. S. ENGINEER OFFICE, 815 Witherspoon Building, Philadelphia, Pa., Jan. 15, 1908. Sealed proposals for constructing one steel, twin-screw suction dredge for Galveston Harbor, Tex., will be received here until 2.30 p. m., Feb. 15, 1908, and then publicly opened. Information furnished on application. J. C. SANFORD, Major, Engrs.

U. S. ENGINEER OFFICE, Mobile, Ala., January 11, 1908.—Sealed proposals for construction of two wooden stern-wheel snagboats will be received here until 11 o'clock A. M., February 15, 1908, and then publicly opened. Information on application. H. JERVEY, Maj. of Engrs.

Situations Wanted

GRADUATE ENGINEER, twelve years' experience in designing and construction of bridges, buildings, foundations, land and rock tunnels, desires position with contractor as estimator or superintendent. First-class references. Address T. 3, 1636 Monadnock Building, Chicago, Ill. 3-2t

STRUCTURAL ENGINEER, non-graduate, Assoc. M. Am. Soc. C. E., 30 years of age, American, 12 years' experience in drafting, estimating and selling; large acquaintance in N. Y. City and vicinity, open for engagement as contracting engineer; minimum salary $2,000 yearly. Address "K. B. 3," Engineering News, New York. 3-4t

Situations Open

WANTED.—An experienced chief draftsman, one who has had wide experience in reinforced concrete designing and understands the science of estimating rapidly and accurately. Address "W. B. 3," Engineering News, New York. 3-2t

ASSISTANT TO GENERAL MANAGER—Wanted immediately, a gentleman with good executive ability and experience as assistant to general manager of an engineering company handling exclusively boiler room plant machinery. Fair commencing salary and exceptional prospects for a really live, intelligent, trained man. Applications must state fullest particulars of past experience, age, salary, etc., to "S. B. 3," Engineering News, New York. 3-1t

WANTED—An assistant foreman for structural steel shop, near New York City. Apply in person, Saturday, Jan. 18th, A. M., 601 West 26th Street, New York. 3-1t

Miscellaneous Wants

WANTED.

A Second-Hand Rock Crusher

large size, also crushing rolls. Must be cheap for cash. Address "W. B. 3," Engineering News, New York. 3-2t

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than any other Engineering Journal in the United States.